From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, July 23, 2024 4:06 PM
To: Alfredo Mendoza
Cc: Rhyan Stone; Mareno, Katie
Subject: RE: Revised PBR supplemental table
Attachments: CD Title V Amendment OP-CRO1.pdf

The hard copy will be mailed out tomorrow. The attached documents include OP-CRO1 and OP-PBRSUP. My apology for slow response.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Tuesday, July 23, 2024 9:11 AM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Rhyan Stone <Rhyan.Stone@tceq.texas.gov>
Subject: [EXTERNAL]Re: Revised PBR supplemental table

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Vinod,

As soon as the OP-CRO1 is signed, please email me a copy. The hardcopy must be sent in the mail. Management is asking me about the project status, and I can't send it out until I receive the OP-CRO1.

Thanks,

Alfredo Mendoza, P.E.

Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Monday, July 22, 2024 1:36 PM

To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Subject: RE: Revised PBR supplemental table

Believe it or not, my supervisor is taking the OP-CRO1 to be signed.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Monday, July 22, 2024 11:33 AM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Subject: [EXTERNAL]RE: Revised PBR supplemental table

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Vinod,

Any update on the OP-CRO1?

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, July 2, 2024 4:04 PM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Subject: RE: Revised PBR supplemental table

I am waiting on my RO to sign the OP-CRO1. Then I will email them to you.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Tuesday, July 2, 2024 3:56 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Subject: [EXTERNAL]RE: Revised PBR supplemental table

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Vinod,

I am on leave, but I am checking email periodically. I was waiting on the OP-CRO1 for the last PBR Supplemental update you sent me. You can send me an electronic copy for now so I can work on sending the minor revision to public announcement, but you also need to send the hardcopy of the OP-CRO1 via mail. Did you have any other questions?

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

How are we doing? Fill out our online customer satisfaction survey at
https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, July 2, 2024 8:06 AM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Subject: RE: Revised PBR supplemental table

Can you please call me? 979-491-2125 is my number.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, June 20, 2024 10:08 AM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: [EXTERNAL]RE: Revised PBR supplemental table

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Vinod,

I have reviewed the updated OP-PBRSUP form, and I did not have any further comments. Please proceed in sending the OP-CRO1 form to certify the updated OP-PBRSUP form.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section

ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

How are we doing? Fill out our online customer satisfaction survey at
https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Wednesday, June 19, 2024 3:45 PM
To: Wilson, Aimee (she/her/hers) <Wilson.Aimee@epa.gov>; Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: Revised PBR supplemental table

Aimee,
As per our conversation on 6/19/2024, I have revised the OP-PBRSUP to clearly define our monitoring and recordkeeping requirements. Have a great weekend!

VKJ

Katherine Mareno
Environmental Director
Phillips 66
Sweeny Refinery
P. O. Box 866
Sweeny, TX 77480
Phone 979-491-2111

July 22, 2024

CERTIFIED MAIL NO.: 9589 0710 5270 1173 4882 58

Mr. Jesse Chacon, PE, (MC163)
Manager, Operating Permits Section
Texas Commission on Environmental Quality (TCEQ)
P.O. Box 13087
Austin, TX 78711-3087

Re: Federal Operating Permit Revision
Federal Operating Permit No. O-1626
Phillips 66 Company (CN604065912)
Sweeny Refinery (RN101619179)
Old Ocean, TX; Brazoria County

Dear Sir/Madam:

Phillips 66 Company, Sweeny Refinery, located at Old Ocean, Brazoria County, respectfully submits a Federal Operating Permit No. O-1626 revision. The purpose of the revision is to incorporate the latest permit by rule authorizations and update recordkeeping and monitoring requirements via form OP-PBRSUP form No. 20875.

The revision application includes a signed Certification by Responsible Official (OP-CRO1) and OP-PBRSUP. The enclosed documents are being mailed and document copies are being emailed to both EPA Region VI and TCEQ Region 12 office.

If you have any questions or concerns, please feel free to call Vinod Jaini at (979) 491-2125 or by email at Vinod.k.Jaini@p66.com.

Sincerely,

Katherine Mareno
Environmental Director

Enclosure

cc: **CERTIFIED MAIL NO.: 9589 0710 5270 1173 4882 65**
Steve Thompson
Chief, Air Enforcement Branch
Enforcement and Compliance Assurance Division
EPA Region 6
1201 Elm Street, Suite 500
Dallas, Texas 75270

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: RN**101619179**	CN: CN**604065912**	Account No.: **BL0042G**
Permit No.: **FOP O1626**	Project No.: **N/A**	
Area Name: **Sweeny Refinery**	Company Name: **Phillips 66 Company**	

II. Certification Type *(Please mark the appropriate box)*

☒ Responsible Official ☐ Duly Authorized Representative

III. Submittal Type *(Please mark the appropriate box) (Only one response can be accepted per form)*

☐ SOP/TOP Initial Permit Application ☒ Update to Permit Application

☐ GOP Initial Permit Application ☐ Permit Revision, Renewal, or Reopening

☐ Other: _____

IV. Certification of Truth

This certification does not extend to information which is designated by the TCEQ as information for reference only.

I, **William L. Stone** *(Certifier Name printed or typed)* certify that I am the **RO** *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From **2/29/2024** *Start Date* to **6/19/2024** *End Date*

Specific Dates: _____ *Date 1* _____ *Date 2* _____ *Date 3* _____ *Date 4* _____ *Date 5* _____ *Date 6*

Signature: William L. Stone Signature Date: July 23, 2024

Title: **VP, Sweeny Refinery**

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
05-10-2024	O-1626	RN101619179

Unit ID No.	Registration No.	PBR No.	Registration Date
54-22-14 (CT14)	167892	30 TAC 106.4/106.8/106.371	2/7/2022
U38 ULSD LP Stripper Revamp	168860	30 TAC 106.261	4/27/2022
3-0-0,4-0-0,5-0-0,6-0-0S,7-0-0,8-0-0,9-0-0, 11-0-0,14-0-0,15-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
17-0-0,19-0-0,20-0-0,25.1-0-0,25.2-0-0,26.1-0-0,26.2-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
27.1-0-0,27.2-0-0,27.-0-0,28.1-0-0,28.2-0-0,29.1-0-0,29.2-0-0	168576	30TAC 106.261/30TAC106.262	3/31/2022
30-0-0,35-0-0,38-0-0,39.1-0-0, 51-0-0,56-0-0,87-0-0,68.1-0-0,68.2-0-0	168576	30TAC106.261/30TAC106.262	3/31/2022
Petroleum coke handling	43038	30TAC106.261	01/05/2000
Crude Unit Caustic line,25.1-0-0	77156	30TAC106.261/30TAC106.262	11/01/2005
Redundant Amine flash drum, 28.1-0-0	82601	30 TAC 106.262	08/01/2007
Crude unloading, 68.1-0-0	95086	30 TAC106.352,30 TAC106.475	04/05/2011
Crude fugitives, 68.1-0-0	160243	30TAC 106.261, 30TAC106.262, 30TAC 106.4	02/24/2020

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
05-10-2024	O-1626	RN101619179

Unit ID No.	PBR No.	Version No./Date
25.1-0-0 (sour crude header line)	**77153**	**11/23/2005**
68.1-0-0 (BB unloading)	**114522**	**03/10/2015**
Sweeny Mixed Pentane Project (P-Load, P-Fug)	**116241**	**03/27/2014**
68TK208	**158959**	**10/29/2019**
Railcar diesel loading	**157719**	**07/23/2019**
Gasoline inline blending	**25434**	**12/29/1994**
9-36-4, 9-0-0	**118459**	**05/09/2014**
New cooling tower	**151092**	**03/27/2018**
54-22-14	**167892**	**03/03/2022**
68-95-259, 68-95-260	**151896**	**05/04/2018**
Ammonia injection into EPN 3-95-3	**169961**	**09/30/2022**
Annual Fugitive registration	**164644**	**03/31/2021**
Isocontainer Loading of Hexane and C5 andFGR fugitives (86-0-0)	**165952**	**07/30/2021**

Permit By Rule Supplemental Table (Page 3)
Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number

PBR No.	Version No./Date

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
05-10-2024	O-1626	RN101619179

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
25.1-0-0 (sour crude fugitives)	77153	11/23/2005	The Unit 25.1 sour crude header line was replaced with increases certified under PI-7CERT. The VOC emission increases were less than 0.01 tons. The addition of 4 components (2 valves and 2 connectors) are subject to 28 MID program (quarterly valves and connectors monitoring).These components were authorized under 30TAC 106.261/106.262/106.4. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
68.1-0-0(BB unloading), Sweeny Mixed Pentane project	114522/116241	03/10/2015/03/27/2014	This is to authorize the Butane/Butylene (BB) storage. The BB is feed to HF Alkylation unit.The BB is stored in high pressure vessels. These emissions are authorized under 30 TAC 106.4/30TAC106.261/30TAC106.262/30TAC106.263. The VOC emission increases are less than 5 tons. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations. The BB storage is a pressurized storage.
68TK208	158959	10/29/2019	TK208 used to be a fixed roof tank. The tank was retroffited with an internal floating roof in order to store distillate range materials including addition of naphtha to distillate range materials inside the tank under a pollution control standard permit. The increases are less than 0.91 ton of VOC. Tank 208 emissions are calculated using AP42 tank calculations.
Railcar diesel loading fugitives	157719	07/23/2019	Diesel loading was authorized under 30TAC106.4/30TAC106.261/106.472. The refinery petroleum fractions emissions increases were less than 0.64 tons VOC. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
Gasoline inline blending	25434	12/29/1994	This project involves the installation of inline gasoline blending back to 1994 that is in use. This project was authorized under Standard Exemptions 86 (authorization for Storage) and 106 (this one authorizes changes provided that new or VOC emission increases do not exceed 6 lb/h and 10 tpy.). The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
9-36-4, 9-0-0	118459	05/09/2014	The installation of ultralow NOx burners and addition of fugitive emission components in a sweet crude unit furnace is authorized under pollution control permit. The VOC emissions were less than 5.34 tons, NOx emissions were 35.64 tons. The heater is equipped with NOx,CO and O2 CEMs. The CEMs undergo Cylinder gas audits and RATA.
68-95-259,68-95-260	151896	05/04/2018	These gasoline tanks, fugitive components and tank landings were authorized under 30TAC 106.4,106.261, 106.263 and 106.478. The tanks emissions are being calculated on routine basis. These are external floating roof tanks and their emissions are calculated using AP-42 tanks equations.
Ammonia injection into EPN 3-95-3	169961	09/30/2022	This was an experimental trial to inject ammonia into unit 3 FCC in order to reduce NOx emissions. It was authorized under a standard permit pollution control project. Predicted ammonia emissions were 2.86 tons based on calculations.

Isocontainer Loading of Hexane and C5 andFGR fugitives	165952	07/30/2021	The isocontainers were authorized under PI-7CERT through 30TAC106.261 and the vapors were recovered via the flare gas recovery system. The fugitive emissions were authorized under 30 TAC106.261. The MSS emissions were authorized under PN80806. The fugitives EPN are 68.1-0-0 and are calculated with refinery emission factors. The component leakers are calculated using EPA correlation equations.
Annual Fugitive emission registration PBR	164644	03/31/2021	This annual fugitive emission registration under PI-7 CERT authorized via 106.4,106.261,106.262. Total VOC emission increases are 0.28 tons.

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
05-10-2024	O-1626	RN101619179

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
54-22-14 (CT14)	167892	30TAC106.4/106.8/106.371/Reg date 2/7/2022	Under PI-7CERT, this authorizes the installation of enhanced drift eliminators (from 0.004% to 0.0005%) on Cooling tower 54-22-14 (CT14). CT14 is equipped with HRVOC CEM and flowmeter and drift eliminator and monitoring for TDS (total dissolved solids). This was authorized under 106.4,106.261 and 106.262. CT 14 emissions are less than 0.92 tons VOC. The PM emissions are calculated on the basis of TDS samples collected on weekly basis.
U38 ULSD LP Stripper Revamp	168860	30TAC106.261/reg date 4/27/2022	This is to reconfigure the U38,ultra low sulfur diesel unit, LP stripper to produce military grade distillate fractions. The retraying and fugitives were authorized under 30 TAC 106.4 and 30TAC106.261. The project VOC emission increases were 2.77 tons. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
Annual fugitive registration,	168576	30 TAC 106.261/30 TAC106.262/reg date 3/31/2022	This is annual fugitive addition registration for 21 projects.These included components from the project ranging from the FCCUs to the wastewater components to the tank farm fugitive emission components. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
Petroleum coke handling	43038	30TAC 106.4/30TAC106.261	This permit by rule authorizes the stockpiling of coke materials on 5.5 acre land and maintaining a a greater than 6% moisture content in order to minimize particle emissions. This activity was authorized by 30 TAC 106.4 and 106.261.
Replacement of Sour Crude unit caustic line,25.1-0-0	77156	30TAC106.4/30TAC106.261/30TAC106.262	This activity was authorized to inject caustic into the crude train to prevent corrosion of the heater and the distillation columns. The VOC emissions estimates are less than 0.09 tons. This project was authorized under 30 TAC 106.4, 106.261 and 30 TAC 106.262. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
Redundant Amine flash drum,28.1-0-0	82601	30TAC106.262,30TAC106.4	The installation of redundant amine flash drum is authorized via 106.4 and 106.262. These components are in These are components subject to fugitive monitoring/AVO program. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.

Crude unloading, 68.1-0-0	95086	30TAC106.352,30TAC106.475	A pump and several fugitive components were installed to unload high vapor pressure Eagle Ford crude into the pressurized storage tanks, 37 and 38. These components were authorized under 106.352 and 106.475. These components are subject to 28 MID fugitive emission monitoring program. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.
Crude fugitives, 68.1-0-0	160243	30TAC106.261,30 TAC106.262,30TAC106.4	This project was implemented to install piping and piping components to nearby metering skid installed by a third party. There was no capacity increase.The VOC emission increase was 0.13 tons. The fugitive emissions are under a 28 MID LDAR program. The fugitive emissions are calculated based on refinery emission factors with assigned control efficiency. If there are leaking components, the leaks are approximated using EPA correlation equations.

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Thursday, April 4, 2024 1:30 PM
To: Alfredo Mendoza
Cc: Mareno, Katie
Subject: RE: Working Draft Permit Review - Phillips 66 Company, Sweeny Refinery, permit O1626
Attachments: 49140_333619_MAERT_5875257.docx; Unit 15 Debottleneck_9.17.2021.pdf; 49140_333619_Conditions_5875254.docx

Alfredo,

I apologize for the late response. Thank you for working with me. I am providing my comments below.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Tuesday, March 19, 2024 3:54 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: [EXTERNAL]Working Draft Permit Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the minor revision application submitted for the Sweeny Refinery and I have attached a revised working draft permit for your review. I have updated/revised the 40 CFR Part 60, Subpart J applicable requirements and Subpart Ja requirements for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 25.1-36-1, 29.1-36-001, 14-36-3, 14-36-4, 30-36-1, 35-36-1, 38-36-251, 38-36-252, 45-36-1 and emission unit groups 25.2-CS, 26-CS, and 29.2-36-CS. Any permit shields for these regulations have also been removed.
PSX Response: I reviewed the draft permit. All heaters, with the exception of 45-36-1, were designated as NSPS J heaters. Heater 45-36-1 has been correctly designated as NSPS Subpart Ja heater.
I noticed that heaters 15-36-2 and 15-36-3 were still on the permit, and they should be removed. They have been removed from service for over 5 years.

In addition, I have updated the issuance dates for several NSR permits in the New Source Review Authorization References attachment in the permit on page 1283. Many of these NSR permits were updated to revise Special Conditions to terminate the consent decree so they should also be incorporated by reference in the Title V permit. It was noted that NSR permit 7754A and Standard Permit 146501 have been voided according to the NSR permit database, so I removed these from the Title V permit. However, unit 68-95-402 has NSR permit 7754A listed as the NSR Authorization in the New Source Review Authorization References by Emissions Unit table. What is the correct NSR authorization for unit 68-95-402? I will update the permit with the correct authorization.
PSX Response: 68-95-402 was moved to PN 49140 and is now under emission cap. I am attaching that permit for your files.

The Major NSR Summary Tables in Appendix B have also been updated to reflect the latest versions of NSR permits 5920A, PSDTX103M4, N292 and NSR permit 18142 and N278.

Please review the attached draft permit and provide any comments by **April 2, 2024**.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

How are we doing? Fill out our online customer satisfaction survey at
https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 8:04 AM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

Alfredo,

I wanted to run this draft response and the updates to OP-UA50 Tables as requested before finalizing same. I will call to touch base after 2:00 PM.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the

construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.

- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
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Emission Sources - Maximum Allowable Emission Rates

Permit Number 49140

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
15-36-3	Hydrogen Reactor Feed Preheater	VOC	0.03	0.15
		NOx	0.61	2.66
		CO	0.51	2.24
		PM	0.05	0.20
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.05	0.20
		SO_2	0.09	0.38
20-36-1	Pentane Reactor Furnace	VOC	0.16	0.71
		NOx	2.94	12.88
		CO	2.47	10.82
		PM	0.22	0.98
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.22	0.98
		SO_2	0.42	1.84
3-95-3	FCCU No.3 3 Regenerator Vent	VOC	6.76	29.63
		NOx	141.13	261.79
		CO	214.82	940.93
		PM	57.92	253.69
		PM_{10}	57.92	253.69
		$PM_{2.5}$	57.92	253.69
		SO_2	49.13	107.59
		H_2SO_4	16.53	72.39
68-95-6	Storage Tank 6	VOC	0.53	--
68-95-27	Storage Tank 27	VOC	0.40	--

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
68-95-402	Storage Tank 402	VOC	0.74	--
Tank 6, 27, and 402 Cap	Hexane Tank Cap (Tanks 6, 27, and 402)	VOC	--	3.59
68-95-9	Storage Tank 9	VOC	0.25	0.54
68-95-10	Storage Tank 10	VOC	0.25	0.55
68-95-26	Storage Tank 26	VOC	0.27	0.72
68-95-32	Storage Tank 32	VOC	0.47	1.38
68-95-33	Storage Tank 33	VOC	0.79	1.99
68-95-43	Storage Tank 43	VOC	0.69	1.67
68-95-78	Storage Tank 78	VOC	3.89	10.01
68-95-79	Storage Tank 79	VOC	1.23	0.05
68-95-83	Storage Tank 83	VOC	0.62	1.69
68-95-215	Storage Tank 215	VOC	4.54	11.94
68-95-219	Storage Tank 219	VOC	0.39	0.72
68-95-406	Storage Tank 406	VOC	3.89	10.25
68-95-7	Storage Tank 7	VOC	1.98	0.67
68-95-41	Storage Tank 41	VOC	0.08	0.02
68-95-42	Storage Tank 42	VOC	0.08	0.04
68-95-45	Storage Tank 45	VOC	0.08	0.18
68-95-46	Storage Tank 46	VOC	0.08	0.16
68-95-51	Storage Tank 51	VOC	0.02	0.02
68-95-53	Storage Tank 53	VOC	0.08	0.20
68-95-54	Storage Tank 54	VOC	1.31	2.48
68-95-55	Storage Tank 55	VOC	0.15	0.04
68-95-201	Storage Tank 201	VOC	5.72	0.96
68-95-202	Storage Tank 202	VOC	4.53	1.42
68-95-203	Storage Tank 203	VOC	1.84	4.92
68-95-204	Storage Tank 204	VOC	1.05	2.66

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
68-95-224	Storage Tank 224	VOC	0.02	0.02
68-95-400	Storage Tank 400	VOC	0.38	0.03
68-95-405	Storage Tank 405	VOC	0.33	0.04
86-FUG	Tank Truck Loading Losses	VOC	1.17	0.01
86-0-0	Tank Truck Loading Fugitives (5)	VOC	0.94	4.13
87-0-0	Railcar Loading Fugitives (5)	VOC	0.73	3.20
54-22-1	Cooling Tower	VOC	3.15	13.80
		PM	0.56	2.47
		PM_{10}	0.56	2.47
		$PM_{2.5}$	0.29	1.28

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: December 22, 2021

Special Conditions

Permit Number 49140

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled “Emission Sources - Maximum Allowable Emission Rates” (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. **(09/20)**

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions. **(09/20)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60): **(09/20)**

   A. Subpart A, General Provisions.

   B. Subpart J, Standards of Performance for Petroleum Refineries

   C. Subpart Ja, Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

   D. Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984

   E. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984

   F. Subpart QQQ, Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems

4. These facilities shall comply with all applicable requirements of the U.S. EPA regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61: **(09/20)**

   A. Subpart A, General Provisions.

   B. Subpart FF, National Emission Standard for Benzene Waste Operations

5. These facilities shall comply with all applicable requirements of the U.S. EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63: **(09/20)**

   A. Subpart A, General Provisions.

   B. Subpart G, National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater

C. Subpart CC, National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries

D. Subpart UUU, National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

E. Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters

Emission Standards and Operational Specifications

6. Pipeline-quality, sweet natural gas shall be used to fire EPNs 15-36-3 and 20-36-1 which is limited to 5 grains sulfur content per 100 standard cubic feet. Natural gas use shall be monitored and recorded for each combustion source and tabulated on a monthly basis. Use of any other fuel for normal operations or standby purposes will require approval from the Texas Commission on Environmental Quality (TCEQ) Executive Director.

Fugitives

Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC - Intensive Directed Maintenance – 28MID

7. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment:

A. The requirements of paragraphs F and G shall not apply (1) where the concentration of VOC in the stream is less than 10 percent by weight or (2) where the volatile organic compounds (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (3) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

The exempted components may be identified by one or more of the following methods:

- piping and instrumentation diagram (PID);
- a written or electronic database or electronic file;
- color coding;
- a form of weatherproof identification; or
- designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas

Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

An approved gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A

calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I) or 500 pounds, whichever is greater, the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination. **(12/21)**

I. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

(Vl + Vs) x 100/Vt = Vp

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to monitor valves.

Vp = the percentage of leaking valves for the monitoring period.

K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

Storage Tanks

8. Unless specified, storage tank throughput and service shall be limited to the following: **(12/21)**

Tank Identifier	Service	Fill/Withdrawal rate (barrels/hour)	Rolling 12 Month Throughput (barrels)
Storage Tank 6	Hexane	770	2,300,000
Storage Tank 27	Hexane	770	
Storage Tank 402	Hexane	770	
Storage Tank 33	Refined petroleum product	800	1,000,000
Storage Tank 7	Dual purpose fuel oil (LSD)	1,170	1,200,000

For internal floating roof tanks, the greater of the maximum fill rate or maximum withdrawal rate is shown. For external floating roof tanks, the maximum withdrawal rate is shown.

9. Storage tanks are subject to the following requirements: The control requirements specified in parts A–C of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.50 psia at the maximum feed temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons.

   A. The tank emissions must be controlled as specified in one of the paragraphs below:

      (1) An internal floating deck or "roof" shall be installed. A domed external floating roof tank is equivalent to an internal floating roof tank. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.

      (2) An open-top tank shall contain a floating roof (external floating roof tank) which uses double seal or secondary seal technology provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weather shield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight.

   B. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and any seal gap measurements specified in Title 40 Code of Federal Regulations § 60.113b (40 CFR § 60.113b) Testing and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates inspection was performed, any measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

   C. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998 except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.

   D. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

   E. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

      (1) The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank identified in Special Condition 8. **(12/21)**

      (2) Emissions from tanks 79, 406, 203, and 204 (EPNs 68-95-79, 68-95-203, and 68-95-204) shall be calculated using the methods that were used to determine the MAERT

limits in the amendment application, PI-1 dated April 28, 2020. Sample calculations from the application shall be attached to a copy of this permit at the plant site. **(12/21)**

(3) Emissions from all other tanks shall be calculated using the methods that were used to determine the MAERT limits in the amendment application, Form PI-1 dated August 19, 2013. Sample calculations from the application shall be attached to a copy of this permit at the plant site.

Cooling Tower

10. The VOC associated with Cooling Tower Water (EPN 54-22-1) shall be monitored monthly with an approved air stripping system or equivalent. The appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling tower. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs. The results of the monitoring and maintenance efforts shall be recorded, and such records shall be maintained for a period of five years. The records shall be made available to the TCEQ Executive Director upon request.

11. The cooling towers (EPN 54-22-1) shall be operated and monitored in accordance with the following:

A. Cooling towers shall be equipped with drift eliminators. Prior to expansion of the cooling tower authorized with the FCC Gas Plant, TCEQ Project 267681, the drift eliminators must have a manufacturer's design assurance of 0.005% drift or less. After cooling tower expansion, the drift eliminators must have a manufacturer's design assurance of 0.001% drift or less. Drift eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.

B. Total dissolved solids (TDS) shall not exceed 1500 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as PM, PM_{10}, and $PM_{2.5}$ as represented in the permit application calculations.

C. Cooling towers shall be analyzed for particulate emissions using one of the following methods:

(1) Cooling water shall be sampled at least once per day for total dissolved solids (TDS); or

(2) TDS monitoring may be reduced to weekly if conductivity is monitored daily and TDS is calculated using a ratio of TDS-to-conductivity (in ppmw per µmho/cm or ppmw/siemens). The ratio of TDS-to-conductivity shall be determined by concurrently monitoring TDS and conductivity on a weekly basis. The permit holder may use the average of two consecutive TDS-to-conductivity ratios to calculate daily TDS; or

(3) TDS monitoring may be reduced to quarterly if conductivity is monitored daily and TDS is calculated using a correlation factor established for each cooling tower. The correlation factor shall be the average of nine consecutive weekly TDS-to-conductivity ratios determined using C(2) above provided the highest ratio is not more than 10% larger than the smallest ratio.

(4) The permit holder shall validate the TDS-to-conductivity correlation factor once each calendar quarter. If the ratio of concurrently sampled TDS and conductivity is more

than 10% higher or lower than the established factor, the permit holder shall increase TDS monitoring to weekly until a new correlation factor can be established.

D. Cooling water sampling shall be representative of the cooling tower feed water and shall be conducted using approved methods.

(1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection and transferred to a laboratory area for analysis.

(2) The analysis method for conductivity shall be either ASTM D1125-95A (field or routine laboratory testing) or ASTM D1125-95B (continuous monitor). The analysis may be conducted at the sample site or with a calibrated process conductivity meter. If a conductivity meter is used, it shall be calibrated at least annually. Documentation of the method and any associated calibration records shall be maintained.

(3) Alternate sampling and analysis methods may be used to comply with D(1) and D(2) with written approval from the TCEQ Regional Director.

(4) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.

E. Emission rates of PM, PM_{10} and $PM_{2.5}$ shall be calculated using the measured TDS or the ratio or correlation of TDS to conductivity measurements, the design drift rate and the daily maximum and average actual cooling water circulation rate for the short term and annual average rates. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.

12. Each railcar and tank truck loading station covered by this permit shall use submerged fill. Tank truck loading of any material with a compound vapor pressure greater than or equal to 0.50 psia shall be sent to a control device. Tank truck and railcar loading arms and loading hoses used to transfer material with a compound vapor pressure greater than or equal to 0.50 psia into a pressurized tank truck and railcar shall be depressured to a Flare (EPN 29-61-1) covered in Permit Number 5920A prior to loading arm and loading hose exposure at atmospheric pressure. Unabsorbed vapors from the sponge oil absorber shall be directed to the Regenerative Thermal Oxidizer (EPN 56-61-152) covered in Permit Number 21265.

13. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.

14. Tank trucks loading n-hexane and resin oil at the tank truck loading station shall be leak tested once in a 12-month period using the leak testing methods of NSPS, Subpart XX. A placard/sticker shall be affixed to each tank truck to certify the leak testing has been completed to allowing chemical loading. A tank truck shall be not loaded at this loading station if no valid placard/sticker is displayed. Tank trucks loading diesel are exempt from the leak testing requirement of this special condition.

15. Opacity from EPN 3-95-3 is limited to 20 percent over a six-minute period when equipped with a COMS. The COMS requirements are shown in Special Condition No. 17. Opacity from EPN 3-95-3 is limited to 15 percent when the COMS is not operating for seven consecutive days and opacity shall be determined by a trained observer.

The maximum allowable concentration of the following pollutants in the FCCU Flue-gas Regenerator Vent Stack (EPN 3-95-3) averaged over a one-hour period are given below:

CO 500 ppmv at 0 percent oxygen (O_2)

nitrogen oxides 200 ppmv

SO_2 300 ppmv

The CO concentration shall be measured on a ppmv on a dry basis (ppmvd) basis. The SO_2 and NO_x concentrations shall be measured on a ppmvd, air-free basis. Records shall be kept at the plant site for the last five years of the types of specialized catalyst additives used to limit CO, NO_x, and SO_2 emissions from the Regenerator Vent (EPN 3-95-3).

The holder of this permit shall comply with the NO_x concentration limits of 145.9 ppmvd corrected to 0% O_2 on a rolling 7-day average and 84.7 ppmvd corrected to 0% O_2 on a rolling 365-day average. The NO_x limit 365 day rolling average of 84.7 ppmvd corrected to 0% O_2 shall apply at all times that the Sweeny FCCU No. 3 is operating (including during startup, shutdown, and maintenance). The short-term NO_x limit 7 day rolling average of 145.9 ppmvd corrected to 0% O_2 shall exclude periods of startup, shutdown, and maintenance, but shall apply at all other times that the Sweeny FCCU No. 3 is operating.

The non-sulfate or non-sulfuric acid PM emissions from the FCCU WGS Vent Stack (EPN 3-95-3) shall not exceed 1.0 pound of PM per 1000 pounds of coke burn-off, with PM emissions measured per EPA Method 5B or 5F.

PM emissions from the FCCU WGS Vent Stack (EPN 3-95-3) shall not exceed 0.5 pounds PM per 1000 pounds of coke burned on a three hour average basis. The permit holder will comply with this designated PM emission limit on a three hour average basis as determined by 40 CFR 60 Appendix A, Method 5B.

The SO_2 concentration emitted from the FCCU WGS Vent Stack (EPN 3-95-3) shall achieve a value of 25 ppmvd or lower on a 365-day rolling average basis at 0 percent oxygen and achieve a value of 50 ppmvd or lower on a seven-day rolling average basis at 0 percent oxygen pursuant to the federal consent decree second amendment lodged on June 24, 2008 under Civil Action No. H-05-0285. The SO_2 emissions during periods of planned startup, and planned shutdown of the FCCU will not be used in determining compliance with the short-term emission limits provided that during such periods the permit holder implements good air pollution control practices to minimize SO_2 emissions. Planned maintenance, startup, and shutdown activities and emissions are not authorized by this special condition.

Initial Determination of Compliance

16. The holder of this permit shall perform initial stack sampling and other testing to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the WGS designated as EPN 3-95-3. Gaseous sampling ports and sampling platforms or equivalent methods of access shall be incorporated into the design of the WGS vent stack per specifications in the attachment entitled “Chapter 2, Stack Sampling Facilities” of the TCEQ Sampling Procedures Manual. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.

During the pretest meeting, the applicant may request use of the EPA Test Method (TM) 19 to calculate the stack flow in place of the requirements listed above. Pertinent data, including catalyst air flow and catalyst flow shall be recorded and included in the sampling report. Any data and/or records required in addition to EPA TM 19 requirements shall be addressed at the pretest meeting.

A. The appropriate TCEQ Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

(1) Date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

(5) Method or procedure to be used in sampling.

(6) Procedure to be used to determine regenerator vent actual air flow rate during the sampling period.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or the EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have the EPA approval shall be submitted to the TCEQ Regional Office.

B. Air contaminants emitted from the WGS designated as EPN 3-95-3 to be tested for include (but are not limited to) PM front-half, PM back-half and sulfuric acid. Corrections for the amount of sulfate particulate in the stack gas shall conform to the procedures specified in the TCEQ Laboratory Methods Manual to show compliance with 1.0 PM/1,000 lbs. of coke burnoff. Opacity shall be determined by an opacity monitoring device or a trained observer. Sampling results shall be used to demonstrate compliance with the pound per hour emission limits of each pollutant on the maximum allowable emission rates table. Sampling shall occur within 60 days but not later than 180 days from February 1, 2010, upon installation and operation of the WGS on EPN 3-95-3.

C. Regenerator vent emissions sent to the WGS shall be determined by appropriate EPA methods or other methods approved by the TCEQ Regional Director prior to sampling.

Emissions shall be sampled from the WGS at maximum regenerator vent flow rates. Additional sampling may be required if the regenerator vent rate exceeds the vent rate recorded during the sampling by more than 10 percent. Every effort should be made to conduct initial compliance testing during conditions which demand the maximum flow rate expected for the regenerator.

D. Sampling shall be performed at other such times as required by the TCEQ Regional Director or the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office.

E. One copy of the final sampling report shall be forwarded to the TCEQ Houston Regional Office within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual.

Continuous Determination of Compliance

17. The holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the in-stack concentration of CO, NO_x, SO_2 and O_2 and measure opacity from EPN3-95-3, FCCU No. 3 Regenerator Vent. An alternative monitoring plan (AMP) may be used to demonstrate continuous opacity compliance from EPN 3-95-3. The AMP is shown in paragraph G of this special condition.

A. The CEMS and COMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division in Austin for requirements to be met.

B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F. Section 2 applies to all other sources:

(1) The permit holder shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.

(2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days. Quality-assured (or valid) data must be generated when the wet gas scrubber is operating except during the performance of a daily zero and span check.

Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months. All CGA exceedances of ±15 percent accuracy indicate that the CEMS is out of control.

C. The monitoring data shall be reduced to average hourly concentrations at least once every day, using a minimum of one data point every 15 minutes. The individual average concentrations of each pollutant shall be reduced to units of the permit allowable emission

rate in pounds an hour at least once every day and recorded at the plant site for the last two years. The measured hourly average concentration from the CEMS shall be multiplied by the flow rate measured during the most recent stack test performed under requirements in Special Condition No. 16 to determine the hourly average emission rate.

D. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ Executive Director or designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.

F. The CEMS emission reports shall be recorded quarterly at the plant site for the last two years of operation. Each CEMS report shall contain all episodes of CEMS downtime if it is not corrected within 24 hours and identification of reasons for CEMS downtime as well as a description of all corrective and preventative actions taken.

G. AMP continuous opacity compliance parameters are:

(1) Monitoring and maintaining the pressure to the nozzles in the quench/spray tower (P19) at 39.0 pounds per square inch gauge (psig) or greater;

(2) Monitoring and maintaining the pressure drop across the filter/Cyclolabs (AFM P-27) at 14.2 psig or greater; and

(3) Monitoring and maintaining the minimum Liquid to Gas Ratio (L/G) at 0.078 gallons per minute per dry standard cubic feet per minute.

18. The following requirements apply to capture systems for the WGS designated as EPN 3 95-3 that is subject to Compliance Assurance Monitoring (CAM).

A. If used for particulate control then inspect any fan and verify proper operation and inspect the capture system to verify there are no cracks, holes, tears, and other defects once a year.

B. If not used to control particulate then conduct a once a month visual, audible and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system.

C. The control device shall not have a bypass.

D. If any of the above inspections is not satisfactory, the permit holder shall promptly take necessary corrective action.

19. The differential pressure across the WGS designated as EPN 3 95-3 shall be continuously monitored and be recorded at least once a day. The pH shall be analyzed and recorded at least once a day in the WGS caustic scrubbing solution. The optimum pH range for WGS measurement is between 5.0 and 11.0. Each pH monitoring device tied to WGS operation shall be cleaned with an automatic cleaning system or cleaned weekly using hydraulic, chemical or mechanical cleaning. Each pH monitoring device tied to WGS operation shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least weekly, whichever is more frequent, and shall be accurate to within 0.5 pH unit.

The WGS pressure drop shall be at least 15 to 20 inches of water column. The WGS pressure monitoring device shall be calibrated at a frequency in accordance with the manufacturer's

specifications or at least annually, whichever is more frequent, and shall be accurate to within 2 percent of span (5 for pressure) or 5 percent of the design value. The minimum liquid flow to the WGS shall be 40 gallons per minute (gpm). The WGS scrubber liquid circulation rate in gpm shall be monitored and recorded at least once a day.

Quality-assured (or valid) data must be generated when the WGS is operating except during the performance of a daily zero check. Loss of valid data due to periods of monitor breakdown, out-of-control operation (producing inaccurate data), repair, maintenance or calibration may be exempted provided it does not exceed 5 percent of the time (in hours) that the WGS operated over the previous rolling 12-month period. The WGS measurements missed shall be estimated using engineering judgment and the methods used recorded.

20. The Pentane Reactor Furnace (EPN 20-36-1) and FCCU No. 3 Regenerator Vent (EPN 3-95-3) are affected facilities under the EPA regulations in 40 CFR Part 60 (NSPS) and are subject to the requirements of Subpart A and Subpart J (40 CFR Part 60, Subparts A and J). (Consent Decree, CD-H-05-0258) **(01/19)**

Recordkeeping

21. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction: **(12/21)**

    A. Records of emissions from tanks to show compliance with Special Condition No. 0.

22. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit.

Authorization	Source or Activity
PBR No. 117901	External floating roof tank (EPN 68-95-33) and fugitives (EPN T-FUG)

Date: December 22, 2021

From: Alfredo Mendoza
Sent: Tuesday, March 19, 2024 3:54 PM
To: Jaini, Vinod K
Cc: Mareno, Katie
Subject: Working Draft Permit Review - Phillips 66 Company, Sweeny Refinery, permit O1626
Attachments: revised permit O1626.docx

Vinod,

I have completed my review of the minor revision application submitted for the Sweeny Refinery and I have attached a revised working draft permit for your review. I have updated/revised the 40 CFR Part 60, Subpart J applicable requirements and Subpart Ja requirements for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 25.1-36-1, 29.1-36-001, 14-36-3, 14-36-4, 30-36-1, 35-36-1, 38-36-251, 38-36-252, 45-36-1 and emission unit groups 25.2-CS, 26-CS, and 29.2-36-CS. Any permit shields for these regulations have also been removed.

In addition, I have updated the issuance dates for several NSR permits in the New Source Review Authorization References attachment in the permit on page 1283. Many of these NSR permits were updated to revise Special Conditions to terminate the consent decree so they should also be incorporated by reference in the Title V permit. It was noted that NSR permit 7754A and Standard Permit 146501 have been voided according to the NSR permit database, so I removed these from the Title V permit. However, unit 68-95-402 has NSR permit 7754A listed as the NSR Authorization in the New Source Review Authorization References by Emissions Unit table. What is the correct NSR authorization for unit 68-95-402? I will update the permit with the correct authorization.

The Major NSR Summary Tables in Appendix B have also been updated to reflect the latest versions of NSR permits 5920A, PSDTX103M4, N292 and NSR permit 18142 and N278.

Please review the attached draft permit and provide any comments by **April 2, 2024**.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 8:04 AM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

Alfredo,

I wanted to run this draft response and the updates to OP-UA50 Tables as requested before finalizing same. I will call to touch base after 2:00 PM.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22,

2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Phillips 66 Company

AUTHORIZING THE OPERATION OF
Sweeny Refinery
Petroleum Refineries

LOCATED AT
Brazoria County, Texas
Latitude 29° 4′ 26″ Longitude 95° 44′ 55″
Regulated Entity Number: RN101619179

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1626 Issuance Date: July 28, 2021

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

    E. Emission units subject to 40 CFR Part 63, Subparts F, G, CC, UUU, ZZZZ, and DDDDD identified in the attached Applicable Requirements Summary table are subject to 30 TAC

Chapter 113, Subchapter C, §§ 113.110, 113.120, 113.340, 113.780, 113.1090, and 113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.

F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:

(i) Title 30 TAC § 101.352 (relating to General Provisions)

(ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)

(iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)

(iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)

(v) Title 30 TAC § 101.359 (relating to Reporting)

(vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)

(vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit

G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:

(i) Title 30 TAC § 101.392 (relating to Exemptions)

(ii) Title 30 TAC § 101.401 (relating to Level of Activity Certification)

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear

view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

(i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

(ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

(iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)

(iv) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)

(v) Title 30 TAC § 111.215 (relating to TCEQ Executive Director Approval of Otherwise Prohibited Outdoor Burning)

(vi) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

(vii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).

5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with 40 CFR Part 63, Subpart G as specified in 30 TAC § 115.143(c)(1) - (3).

A. Title 30 TAC § 115.147(7), (7)(A) and (B) (relating to Exemptions)

6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 115.221 (relating to Emission Specifications)

(ii) Title 30 TAC § 115.222 (relating to Control Requirements)

(iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)

(iv) Title 30 TAC § 115.224 (relating to Inspection Requirements)

(v) Title 30 TAC § 115.225 (relating to Testing Requirements)

(vi) Title 30 TAC § 115.226 (relating to Recordkeeping Requirements)

B. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

7. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter D requirements:

A. Title 30 TAC § 115.312(a)(1) (relating to Control Requirements), for emissions during Process Unit Shutdown or Turnaround

B. Title 30 TAC § 115.316(a)(2) (relating to Recordkeeping Requirements), for Process Unit Shutdown or Turnaround

8. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:

A. For degassing of stationary VOC storage tanks, the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)

(ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks

(iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.

(iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)

(v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)

(vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections

(vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring

(viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices

(ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)

(x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring

(xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)

(xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)

(xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping

(xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)

(xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)

(xvi) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification

(xvii) Title 30 TAC § 115.547(4) (relating to Exemptions)

B. For the degassing of all transport vessels with a nominal capacity of 8,000 gallons or more, the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 115.541(a) - (c) and (d) (relating to Emission Specifications)

(ii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.

(iii) Title 30 TAC § 115.542(b), (c) and (e) (relating to Control Requirements)

(iv) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)

(v) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections

(vi) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring

(vii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices

(viii) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)

(ix) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring

(x) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)

(xi) Title 30 TAC § 115.545(1) - (11) and (13) (relating to Approved Test Methods)

(xii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping

(xiii) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)

(xiv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)

(xv) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification

9. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams having no potential to emit HRVOC.

10. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams from sources exempt under 30 TAC § 115.727(c)(3).

11. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

12. For petroleum refinery facilities subject to 40 CFR Part 60, Subpart QQQ, the permit holder shall comply with the following requirements:

A. Title 40 CFR § 60.692-1(a) - (c) (relating to Standards: General)

B. Title 40 CFR § 60.692-2(a) - (c), (e) (relating to Standards: Individual Drain Systems)

C. Title 40 CFR § 60.692-6(a) - (b) (relating to Standards: Delay of Repair)

D. Title 40 CFR § 60.692-7(a) - (b) (relating to Standards: Delay of Compliance)

E. Title 40 CFR § 60.693-1(a) - (d), (e)(1) - (3) (relating to Alternative Standards for Individual Drain Systems)

F. Title 40 CFR § 60.697(a), (b)(1) - (3) (relating to Recordkeeping Requirements), as applicable to Individual Drain Systems

G. Title 40 CFR § 60.697(f)(1) - (2), (g) (relating to Recordkeeping Requirements), as applicable to Individual Drain Systems

H. Title 40 CFR § 60.697(h) (relating to Recordkeeping Requirements), as applicable to excluded Stormwater Sewer Systems

I. Title 40 CFR § 60.697(i) (relating to Recordkeeping Requirements), as applicable to excluded Ancillary Equipment

J. Title 40 CFR § 60.697(j) (relating to Recordkeeping Requirements), as applicable to excluded Non-contact Cooling Water Systems

K. Title 40 CFR § 60.698(a), and (b)(1) (relating to Reporting Requirements), as applicable to Individual Drain Systems

L. Title 40 CFR § 60.698(c) (relating to Reporting Requirements), for water seal breaches in Drain Systems

M. Title 40 CFR § 60.698(e) (relating to Reporting Requirements), as applicable to Individual Drain Systems

13. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 61.05 (relating to Prohibited Activities)

B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)

C. Title 40 CFR § 61.09 (relating to Notification of Start-up)

D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)

E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)

F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)

G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)

H. Title 40 CFR § 61.15 (relating to Modification)

I. Title 40 CFR § 61.19 (relating to Circumvention)

14. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:

    A. Title 40 CFR § 61.342(c)(1)(i) - (iii) (relating to Standards: General)

    B. Title 40 CFR § 61.342(g) (relating to Standards: General)

    C. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)

    D. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions)

    E. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)

    F. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)

    G. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)

    H. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)

    I. Waste generated by remediation activities at these facilities are subject to the requirements identified under 40 CFR § 61.342 for treatment and management of waste

15. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:

    A. Title 40 CFR § 61.345(a)(1) - (3), (b), and (c) (relating to Standards: Containers)

    B. Title 40 CFR § 61.345(a)(4)(i) - (iii) (relating to Standards: Containers)

    C. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)

    D. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)

    E. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)

16. For facilities with individual drain systems subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:

    A. Title 40 CFR § 61.346(a)(1)(i)(A), (B), (ii), (2), and (3) (relating to Standards: Individual Drain Systems)

    B. Title 40 CFR § 61.346(a)(1)(i)(C)(1) - (3) (relating to Standards: Individual Drain Systems)

    C. Title 40 CFR § 61.346(b)(1), (2), (2)(i), (3), (4)(i) - (iv), and (5) (relating to Standards: Individual Drain Systems)

    D. Title 40 CFR § 61.346(b)(2)(ii)(A) (relating to Standards: Individual Drain Systems), for junction boxes

E. Title 40 CFR § 61.346(b)(2)(ii)(B) (relating to Standards: Individual Drain Systems), for junction boxes

F. Title 40 CFR § 61.353(a) - (c) (relating to Alternative Means of Emission Limitation)

G. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)

H. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)

I. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)

17. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

18. For the chemical manufacturing process specified in 40 CFR Part 63, Subpart F, the permit holder shall comply with 40 CFR § 63.103(a) (relating to General Compliance, Reporting, and Recordkeeping Provisions) (Title 30 TAC Chapter 113, Subchapter C, § 113.110 incorporated by reference).

19. For the chemical manufacturing facilities with a 40 CFR Part 63, Subpart G Group 1 or Group 2 wastewater streams that are also subject to 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. Title 40 CFR § 63.110(e)(1)(i) and (e)(1)(ii) (relating to Applicability), for 40 CFR Part 63, Subpart G applicability to Group 1 or 2 Wastewater Streams

20. For the chemical manufacturing facilities with a 40 CFR Part 63, Subpart G Group 2 wastewater stream, the permit holder shall comply with (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. Title 40 CFR § 63.132(a), (a)(1), and (a)(1)(i) (relating to Process Wastewater Provisions - General)

B. Title 40 CFR § 63.132(b), (b)(1), (b)(1)(i), (b)(2), and (b)(2)(i) (relating to Process Wastewater Provisions - General)

C. Title 40 CFR § 63.146(b)(1) (relating to Process Wastewater Provisions - Reporting)

D. Title 40 CFR § 63.147(b)(8) (relating to Process Wastewater Provisions - Recordkeeping)

21. For the chemical manufacturing facilities subject to leak detection requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. General Leak Detection Requirements:

(i) Title 40 CFR § 63.148(d)(1) - (3), and (e) (relating to Leak Inspection Provisions)

(ii) Title 40 CFR § 63.148(c), (g), (g)(2), (h), and (h)(2) (relating to Leak Inspection Provisions), for monitoring and testing requirements

(iii) Title 40 CFR §§ 63.148(g)(2), (h)(2), (i)(1) - (2), (i)(4)(i) - (viii), (i)(5), and 63.152(a)(1) - (5), for recordkeeping requirements

(iv) Title 40 CFR §§ 63.148(j), 63.151(a)(6)(i) - (iii), (b)(1) - (2), (j)(1) - (3), 63.152(a)(1) - (5), (b), (b)(1)(i) - (ii), and (b)(4), for reporting requirements

B. For closed vent system or vapor collection systems constructed of hard piping:

(i) Title 40 CFR § 63.148(b)(1)(ii) (relating to Leak Inspection Provisions), for monitoring and testing requirements

(ii) Title 40 CFR § 63.148(i)(6) (relating to Leak Inspection Provisions), for recordkeeping requirements

22. For the chemical manufacturing facilities subject to transfer operations requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. Title 40 CFR § 63.126(e)(1) - (2), and (f) (relating to Transfer Operations Provisions Reference Control Technology)

B. Title 40 CFR § 63.128(f)(1) - (2) (relating to Transfer Operations Provisions - Test Methods and Procedures)

C. Title 40 CFR § 63.130(e) (relating to Transfer Operations Provisions - Periodic Recordkeeping and Reporting)

23. For the chemical manufacturing facilities subject to wastewater operations requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. Title 40 CFR § 63.135(a) - (f) (relating to Process Wastewater Provisions - Containers)

B. Title 40 CFR § 63.136(a) (relating to Process Wastewater Provisions - Individual Drain Systems)

C. Title 40 CFR § 63.136(e) - (g) (relating to Process Wastewater Provisions - Individual Drain Systems)

24. For the chemical manufacturing facilities subject to requirements of certain liquid streams in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):

A. Title 40 CFR § 63.149(a), for control requirements

B. Title 40 CFR § 63.152(a)(1) - (5) (relating to General Reporting and Continuous Records)

C. Title 40 CFR §§ 63.151(a)(6)(i) - (v), (b)(1) - (2), (j)(1) - (3), 63.152(a)(1) - (5), (b), (b)(1)(i) - (ii), (b)(4) (relating to Initial Notification)

25. For sources subject to emission standards in 40 CFR Part 63, Subpart CC, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.340 incorporated by reference):

A. Title 40 CFR § 63.640(l)(3) - (4) (relating to Applicability and Designation of Affected Source), for units and equipment added to an existing source

B. Title 40 CFR § 63.640(m)(1) - (2) (relating to Applicability and Designation of Affected Source), for units and emission points changing from Group 2 to Group 1 status

C. Title 40 CFR § 63.642(c) (relating to General Standards), for applicability of the General Provisions of Subpart A

D. Title 40 CFR § 63.642(e) (relating to General Standards), for recordkeeping

E. Title 40 CFR § 63.642(f) (relating to General Standards), for reporting

26. The permit holder shall comply with the requirement to prepare and implement an Operations and Maintenance plan in accordance with 40 CFR Part 63, Subpart UUU, § 63.1574(f) (Title 30 TAC Chapter 113, Subchapter C, § 113.780 incorporated by reference).

Additional Monitoring Requirements

27. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:

A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

E. The permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:

(i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or

(ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.

F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

28. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

29. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the permits by rule identified in the PBR Supplemental Tables in the application), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

30. Emission limits include those requirements listed for units in the permitted area under a multiple plant NSR permit.

31. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

32. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

33. The permit holder shall comply with the following requirements for Air Quality Standard Permits:

A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit

B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit

C. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application.

D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

34. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

35. The permit holder shall adhere to the provisions in the Compliance Schedule attachment of this permit and submit certified progress reports consistent with the schedule established under 30 TAC § 122.132(d)(4)(C) and including the information specified in 30 TAC § 122.142(d)(2). Those emission units listed in the Compliance Schedule attachment shall adhere with the requirements in the Compliance Schedule attachment until operating fully in compliance with the applicable requirements.

36. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:

A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:

(i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:

(1) Title 30 TAC § 117.9020(2)(A), (C), and (D)

B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).

C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.

37. Use of Emission Credits to comply with applicable requirements:

A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) Offsets for Title 30 TAC Chapter 116

B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)

(ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1

(iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

38. Use of Discrete Emission Credits to comply with the applicable requirements:

A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) If applicable, offsets for Title 30 TAC Chapter 116

(iv) Temporarily exceed state NSR permit allowables

B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

39. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

40. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

    A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

    B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

    C. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

Temporary Fuel Shortages (30 TAC § 112.15)

41. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:

    A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)

    B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)

    C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)

    D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Alternative Requirements

42. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit

holder shall maintain the original documentation, from the EPA Administrator, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

43. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

44. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Schedules

Alternative Requirement

Applicable Requirements Summary

Unit Summary **21**

Applicable Requirements Summary **62**

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
11-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
11-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
11-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
11-36-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
11-36-1	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
11-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J11361	40 CFR Part 60, Subpart J	No changing attributes.
11-36-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
11-36-5	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
11-36-5	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
11-36-5	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J11365	40 CFR Part 60, Subpart J	No changing attributes.
11-36-5	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
121-95-1	Storage Tanks/Vessels	N/A	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
14-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
14-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
14-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
14-36-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
14-36-3	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
14-36-3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J14363	40 CFR Part 60, Subpart J	No changing attributes.
14-36-3	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
14-36-4	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
14-36-4	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
14-36-4	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J14364	40 CFR Part 60, Subpart J	No changing attributes.
14-36-4	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
15-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
15-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
15-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
15-36-2	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
15-36-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-3	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
15-36-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
15-36-3	Process Heaters/Furnaces	N/A	R7301-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
15-36-3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-3	40 CFR Part 60, Subpart J	No changing attributes.
17-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
17-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
17-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
17-95-9	Emission Points/Stationary Vents/Process Vents	N/A	R5121-17-95-9	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
17-95-9	Emission Points/Stationary Vents/Process Vents	N/A	63G-17-95-9	40 CFR Part 63, Subpart G	No changing attributes.
19-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
19-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
19-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
20-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
20-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
20-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
20-36-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
20-36-1	Process Heaters/Furnaces	N/A	R7301-4	30 TAC Chapter 117, Subchapter B	No changing attributes.
20-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J20361	40 CFR Part 60, Subpart J	No changing attributes.
20-36-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
25.1-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
25.1-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
25.1-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
25.1-36-1	Process Heaters/Furnaces	N/A	R7301-2	30 TAC Chapter 117, Subchapter B	NOx Reduction = No NO_x reduction
25.1-36-1	Process Heaters/Furnaces	N/A	R7301-5	30 TAC Chapter 117, Subchapter B	NH3 Monitoring = Mass balance, NOx Reduction = Post combustion control technique with ammonia injection, NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2)
25.1-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J251361	40 CFR Part 60, Subpart J	No changing attributes.
25.1-36-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
25.2-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
25.2-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
25.2-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
25.2-CS	Process Heaters/Furnaces	25.2-36-51, 25.2-36-52	R7301-6	30 TAC Chapter 117, Subchapter B	No changing attributes.
25.2-CS	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	25.2-36-51, 25.2-36-52	60J252CS	40 CFR Part 60, Subpart J	No changing attributes.
25.2-CS	Process Heaters/Furnaces	25.2-36-51, 25.2-36-52	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
26-CS	Process Heaters/Furnaces	26.1-36-1, 26.1-36-1.1, 26.1-36-2, 26.1-36-2.1	R7301-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
26-CS	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	26.1-36-1, 26.1-36-1.1, 26.1-36-2, 26.1-36-2.1	60J26CS	40 CFR Part 60, Subpart J	No changing attributes.
26-CS	Process Heaters/Furnaces	26.1-36-1, 26.1-36-1.1, 26.1-36-2, 26.1-36-2.1	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
26.1-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
26.1-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
26.1-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
26.2-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
26.2-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
26.2-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
27.1-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
27.1-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
27.1-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
27.1-36-RE	Emission Points/Stationary Vents/Process Vents	N/A	R1111-27.1-RE	30 TAC Chapter 111, Visible Emissions	No changing attributes.
27.1-36-RE	Emission Points/Stationary Vents/Process Vents	N/A	R5121-27-36-RE	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
27.1-36-RE	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-2	40 CFR Part 60, Subpart J	No changing attributes.
27.1-36-RE	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-2	40 CFR Part 63, Subpart UUU	No changing attributes.
27.2-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
27.2-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
27.2-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
27.3-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
27.3-0-0	Fugitive Emission Units	N/A	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
27.3-0-0	Fugitive Emission Units	N/A	60VVA-ALL	40 CFR Part 60, Subpart VVa	No changing attributes.
27.3-0-0	Fugitive Emission Units	N/A	63CCVV-ALL	40 CFR Part 63, Subpart CC	No changing attributes.
28-95-300	Storage Tanks/Vessels	N/A	R5112-12	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
28-95-300	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
28-95-306	Storage Tanks/Vessels	N/A	R5112-12	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
28-95-306	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
28-95-316	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
28-95-316	Volatile Organic Compound Water Separators	N/A	60QQQ	40 CFR Part 60, Subpart QQQ	No changing attributes.
28-95-316	Storage Tanks/Vessels	N/A	61FF-5	40 CFR Part 61, Subpart FF	No changing attributes.
28-95-316	Storage Tanks/Vessels	N/A	63Gww-1	40 CFR Part 63, Subpart G	No changing attributes.
28.1-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
28.1-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
28.1-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
28.1-61-10	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-4	40 CFR Part 60, Subpart J	No changing attributes.
28.1-61-9	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-4	40 CFR Part 60, Subpart J	No changing attributes.
28.2-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
28.2-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
28.2-36-2	Emission Points/Stationary Vents/Process Vents	N/A	R1111-28.2-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
28.2-36-2	Gas Sweetening/Sulfur Recovery Units	N/A	R200-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
28.2-36-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-5	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
28.2-36-2	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-4	40 CFR Part 63, Subpart UUU	No changing attributes.
29-61-1	Flares	N/A	R1111-29-61-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
29-61-1	Flares	N/A	R5725	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
29-61-1	Flares	N/A	60A-29-61-1	40 CFR Part 60, Subpart A	No changing attributes.
29-61-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60A-29-61-1	40 CFR Part 60, Subpart Ja	No changing attributes.
29-61-1	Flares	N/A	63A-29-61-1	40 CFR Part 63, Subpart A	No changing attributes.
29-95-001	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
29-95-439	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
29-95-439	Storage Tanks/Vessels	N/A	60Kb-04	40 CFR Part 60, Subpart Kb	No changing attributes.
29-95-439	Storage Tanks/Vessels	N/A	63CC-5	40 CFR Part 63, Subpart CC	No changing attributes.
29.1-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
29.1-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
29.1-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
29.1-36-001	Process Heaters/Furnaces	N/A	R7301-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
29.1-36-001	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J2913601	40 CFR Part 60, Subpart J	No changing attributes.
29.1-36-001	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
29.2-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
29.2-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
29.2-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
29.2-36-101.1	Emission Points/Stationary Vents/Process Vents	N/A	R1111-29.2-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
29.2-36-CS	Process Heaters/Furnaces	29.2-36-101.1, 29.2-36-101.2	R7301-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
29.2-36-CS	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	29.2-36-101.1, 29.2-36-101.2	60J29236CS	40 CFR Part 60, Subpart J	No changing attributes.
29.2-36-CS	Process Heaters/Furnaces	29.2-36-101.1, 29.2-36-101.2	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
3-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
3-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
3-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
3-36-4	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
3-36-4	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
3-36-4	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J3364	40 CFR Part 60, Subpart J	No changing attributes.
3-95-3	Emission Points/Stationary Vents/Process Vents	N/A	R1151	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
3-95-3	Emission Points/Stationary Vents/Process Vents	N/A	R1111-3-95-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
3-95-3	Emission Points/Stationary Vents/Process Vents	N/A	R5121-3-95-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
3-95-3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-1	40 CFR Part 60, Subpart J	No changing attributes.
3-95-3	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
30-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
30-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
30-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
30-32-21	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
30-32-21	SRIC Engines	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
30-36-1	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
30-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J30361	40 CFR Part 60, Subpart J	No changing attributes.
35-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
35-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
35-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
35-36-1	Process Heaters/Furnaces	N/A	R7301-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
35-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J35361	40 CFR Part 60, Subpart J	No changing attributes.
35-36-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
35-95-102	Emission Points/Stationary Vents/Process Vents	N/A	R5121-35-102	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
35-95-102	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-3	40 CFR Part 63, Subpart UUU	No changing attributes.
38-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
38-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
38-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
38-36-251	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
38-36-251	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J3836251	40 CFR Part 60, Subpart J	No changing attributes.
38-36-251	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
38-36-252	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
38-36-252	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J3836252	40 CFR Part 60, Subpart J	No changing attributes.
38-36-252	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
39.1-95-118	Gas Sweetening/Sulfur Recovery Units	N/A	R200-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
39.1-95-118	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-1	40 CFR Part 60, Subpart J	No changing attributes.
39.1-95-118	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	63UUU-4	40 CFR Part 63, Subpart UUU	No changing attributes.
4-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
4-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
4-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
45-0-0	Fugitive Emission Units	N/A	R5780ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
45-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
45-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
45-36-1	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
45-36-1	Process Heaters/Furnaces	N/A	R7301-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
45-36-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	Ja-45361	40 CFR Part 60, Subpart Ja	No changing attributes.
45-36-1	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
5-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
5-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
5-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-11	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-2	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-20	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-21	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-27	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
54-22-8	Industrial Process Cooling Towers	N/A	63CC-CT1	40 CFR Part 63, Subpart CC	No changing attributes.
56-0-000	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
56-0-000	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
56-0-000	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
56-0-001	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
56-0-001	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
56-0-001	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
56-32-67	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-32-67A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-67B	SRIC Engines	N/A	R7201-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-67B	SRIC Engines	N/A	63ZZZZ-5	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-69	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-69	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-69A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-69A	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-69B	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-69B	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-93	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-93	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-93A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-93A	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-93B	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-32-93B	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-32-93C	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-32-93C	SRIC Engines	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-35-002	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-35-002	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-35-002	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-35-002	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-35-002A	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-35-002A	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-35-002A	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-35-002A	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-35-002B	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-35-002B	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-35-002B	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-35-002B	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-35-005	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-35-005A	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
56-35-005B	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
56-35-96	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
56-35-97	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
56-35-98	Volatile Organic Compound Water Separators	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
56-61-1	Flares	N/A	R1111-56-61-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
56-61-1	Flares	N/A	60A-56-61-1	40 CFR Part 60, Subpart A	No changing attributes.
56-61-1	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-6	40 CFR Part 60, Subpart J	No changing attributes.
56-61-1	Flares	N/A	63A-56-61-1	40 CFR Part 63, Subpart A	No changing attributes.
56-61-11	Flares	N/A	R1111-56-61-11	30 TAC Chapter 111, Visible Emissions	No changing attributes.
56-61-11	Flares	N/A	R5725	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
56-61-11	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60A-56-61-11	40 CFR Part 60, Subpart Ja	No changing attributes.
56-61-11	Flares	N/A	63A-56-61-11	40 CFR Part 63, Subpart A	No changing attributes.
56-61-16	Flares	N/A	R5725	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
56-61-16	Flares	N/A	60A-56-61-16	40 CFR Part 60, Subpart A	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-61-16	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60A-56-61-16	40 CFR Part 60, Subpart Ja	No changing attributes.
56-61-16	Flares	N/A	63A-56-61-16	40 CFR Part 63, Subpart A	No changing attributes.
56-61-17	Flares	N/A	R1111-56-61-17	30 TAC Chapter 111, Visible Emissions	No changing attributes.
56-61-17	Flares	N/A	R5725	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
56-61-17	Flares	N/A	60A-56-61-17	40 CFR Part 60, Subpart A	No changing attributes.
56-61-17	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60A-56-61-17	40 CFR Part 60, Subpart Ja	No changing attributes.
56-61-17	Flares	N/A	63A-56-61-17	40 CFR Part 63, Subpart A	No changing attributes.
56-61-19	Flares	N/A	R1111-56-61-19	30 TAC Chapter 111, Visible Emissions	No changing attributes.
56-61-19	Flares	N/A	R5725	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
56-61-19	Flares	N/A	60A-56-61-19	40 CFR Part 60, Subpart A	No changing attributes.
56-61-19	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60A-56-61-19	40 CFR Part 60, Subpart Ja	No changing attributes.
56-61-19	Flares	N/A	63A-56-61-19	40 CFR Part 63, Subpart A	No changing attributes.
56-61-23	Flares	N/A	R1111-56-61-23	30 TAC Chapter 111, Visible Emissions	No changing attributes.
56-61-23	Flares	N/A	60A-56-61-23	40 CFR Part 60, Subpart A	No changing attributes.
56-61-23	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J-6	40 CFR Part 60, Subpart J	No changing attributes.
56-61-23	Flares	N/A	63A-56-61-23	40 CFR Part 63, Subpart A	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-67-149	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-67-149	SRIC Engines	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-67-209	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-67-209	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-95-100	Storage Tanks/Vessels	N/A	60Kb-05	40 CFR Part 60, Subpart Kb	Control Device ID No. = 56-61-152
56-95-100	Storage Tanks/Vessels	N/A	60Kb-06	40 CFR Part 60, Subpart Kb	Control Device ID No. = RTO BACKUP
56-95-100	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-100	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-100	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-100	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-249	Storage Tanks/Vessels	N/A	60Kb-07	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-249	Storage Tanks/Vessels	N/A	61FF-4	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-249	Storage Tanks/Vessels	N/A	63Gww-1	40 CFR Part 63, Subpart G	No changing attributes.
56-95-257	Storage Tanks/Vessels	N/A	60Kb-07	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-257	Storage Tanks/Vessels	N/A	61FF-4	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-257	Storage Tanks/Vessels	N/A	63Gww-1	40 CFR Part 63, Subpart G	No changing attributes.
56-95-452	Storage Tanks/Vessels	N/A	61FF-4	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-452	Storage Tanks/Vessels	N/A	63Gww-1	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-453	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-453	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-453	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-453	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-454	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-454	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-454	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-454	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-458	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-458	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-458	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-458	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-459	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-459	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-459	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-459	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-460	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-460	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-460	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-460	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-461	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-461	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-461	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-461	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-467	Storage Tanks/Vessels	N/A	60Kb-04	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-467	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-467	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-467A	Storage Tanks/Vessels	N/A	60Kb-04	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-467A	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-467A	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-56	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-56	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-56	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-56	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-68	Storage Tanks/Vessels	N/A	60Kb-09	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-68	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-68	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-69	Storage Tanks/Vessels	N/A	60Kb-05	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-69	Storage Tanks/Vessels	N/A	60Kb-06	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-69	Storage Tanks/Vessels	N/A	60Kb-10	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia
56-95-69	Storage Tanks/Vessels	N/A	60Kb-11	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia
56-95-69	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-69	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-69	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-71	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-71	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-72	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-72	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-74	Storage Tanks/Vessels	N/A	60Kb-04	40 CFR Part 60, Subpart Kb	No changing attributes.
56-95-74	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-74	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-75	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-75	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-75	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-75	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-76	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-76	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-76	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-76	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-94	Storage Tanks/Vessels	N/A	60Kb-05	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-94	Storage Tanks/Vessels	N/A	60Kb-06	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-94	Storage Tanks/Vessels	N/A	60Kb-10	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-94	Storage Tanks/Vessels	N/A	60Kb-11	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia
56-95-94	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-94	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-94	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-94	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-95	Storage Tanks/Vessels	N/A	60Kb-05	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-95	Storage Tanks/Vessels	N/A	60Kb-06	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia
56-95-95	Storage Tanks/Vessels	N/A	60Kb-10	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia
56-95-95	Storage Tanks/Vessels	N/A	60Kb-11	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia
56-95-95	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-95	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
56-95-95	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-95	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-95-96	Storage Tanks/Vessels	N/A	61FF-3	40 CFR Part 61, Subpart FF	No changing attributes.
56-95-96	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	No changing attributes.
56-95-99	Storage Tanks/Vessels	N/A	60Kb-05	40 CFR Part 60, Subpart Kb	Control Device ID No. = 56-61-152
56-95-99	Storage Tanks/Vessels	N/A	60Kb-06	40 CFR Part 60, Subpart Kb	Control Device ID No. = RTO BACKUP
56-95-99	Storage Tanks/Vessels	N/A	61FF-1	40 CFR Part 61, Subpart FF	Control Device ID No. = 56-61-152
56-95-99	Storage Tanks/Vessels	N/A	61FF-2	40 CFR Part 61, Subpart FF	Control Device ID No. = RTO BACKUP
56-95-99	Storage Tanks/Vessels	N/A	63Gww-2	40 CFR Part 63, Subpart G	Control Device ID No. = 56-61-152
56-95-99	Storage Tanks/Vessels	N/A	63Gww-3	40 CFR Part 63, Subpart G	Control Device ID No. = RTO BACKUP
56-P-213	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-P-213	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
56-P-215A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
56-P-215A	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
64-31-009	SRIC Engines	N/A	R7201-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
64-31-009	SRIC Engines	N/A	63ZZZZ-7	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
64-31-101	SRIC Engines	N/A	R7201-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
64-31-101	SRIC Engines	N/A	63ZZZZ-7	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
64-31-102	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
64-31-102	SRIC Engines	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
64-31-103	SRIC Engines	N/A	R7201-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
64-31-103	SRIC Engines	N/A	63ZZZZ-7	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
64-31-104	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
64-31-104	SRIC Engines	N/A	63ZZZZ-8	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
66-32-98	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
66-32-98	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
66-67-100	SRIC Engines	N/A	R7201-4	30 TAC Chapter 117, Subchapter B	No changing attributes.
66-67-100	SRIC Engines	N/A	63ZZZZ-9	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
66-67-101	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
66-67-101	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
66-67-102	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
66-67-102	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
66-67-99	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
66-67-99	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
67-32-15	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
67-32-15	SRIC Engines	N/A	63ZZZZ-10	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
68-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
68-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
68-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
68-32-297A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
68-32-297A	SRIC Engines	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
68-32-318	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
68-32-318A	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
68-32-318B	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-32-41	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
68-32-41	SRIC Engines	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
68-95-1	Storage Tanks/Vessels	N/A	R5112-11	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-1	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-2	Storage Tanks/Vessels	N/A	R5112-11	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-2	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-201	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-201	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-202	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-202	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-203	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-203	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-204	Storage Tanks/Vessels	N/A	R5112-6	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-204	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-205	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-205	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-206	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-206	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-207	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-207	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-208	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-208	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-209	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-209	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-210	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-210	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-211	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-211	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-212	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-212	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-213	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-213	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-214	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-214	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-215	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-215	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-216	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-216	Storage Tanks/Vessels	N/A	63G-2	40 CFR Part 63, Subpart G	No changing attributes.
68-95-217	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-217	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-219	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-219	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-222	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-222	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-223	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-223	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-224	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-224	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-227	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-227	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-228	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-228	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-230	Storage Tanks/Vessels	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-230	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-231	Storage Tanks/Vessels	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-231	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-232	Storage Tanks/Vessels	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-232	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-233	Storage Tanks/Vessels	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-233	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-234	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-234	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-235	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-235	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-236	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-236	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-237	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-237	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-238	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-238	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-239	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-239	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-241	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-241	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-245	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-245	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-246	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-246	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-26	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-26	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-27	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-27	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-300	Storage Tanks/Vessels	N/A	R5112-5	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-300	Storage Tanks/Vessels	N/A	63G-4	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-31	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-31	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-400	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-400	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-400	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-401	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-401	Storage Tanks/Vessels	N/A	60Ka-3	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-401	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-402	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-402	Storage Tanks/Vessels	N/A	60Ka-3	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-402	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-403	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-403	Storage Tanks/Vessels	N/A	60Ka-3	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-403	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-405	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-405	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-405	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-406	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-406	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-408	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-408	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-409	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-409	Storage Tanks/Vessels	N/A	60Ka-3	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-409	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-410	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-410	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-411	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-411	Storage Tanks/Vessels	N/A	60Ka-3	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-411	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-412	Storage Tanks/Vessels	N/A	R5112-11	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-412	Storage Tanks/Vessels	N/A	60Ka-7	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-413	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-413	Storage Tanks/Vessels	N/A	60Ka-2	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-413	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-414	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-414	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-415	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-415	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-416	Storage Tanks/Vessels	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-416	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-418	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-418	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-418	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-419	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-419	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-419	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-43	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-43	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-45	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-45	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-46	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-46	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-51	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-51	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-53	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-53	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-54	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-54	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-55	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-55	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-6	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-6	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-66	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-66	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-7	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-7	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-74	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-74	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-75	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-75	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-76	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-76	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-79	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-79	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-83	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-83	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-84	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-84	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-85	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-85	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-86	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-86	Storage Tanks/Vessels	N/A	61Y-2	40 CFR Part 61, Subpart Y	No changing attributes.
68-95-87	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-87	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-91	Storage Tanks/Vessels	N/A	61FF-4	40 CFR Part 61, Subpart FF	No changing attributes.
68-95-91	Storage Tanks/Vessels	N/A	63Gww-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-92	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-92	Storage Tanks/Vessels	N/A	61Y-1	40 CFR Part 61, Subpart Y	No changing attributes.
68-95-93	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-93	Storage Tanks/Vessels	N/A	61Y-1	40 CFR Part 61, Subpart Y	No changing attributes.
68-95-94	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-94	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-95	Storage Tanks/Vessels	N/A	R5112-7	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-95	Storage Tanks/Vessels	N/A	63G-1	40 CFR Part 63, Subpart G	No changing attributes.
68-95-97	Storage Tanks/Vessels	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-98	Storage Tanks/Vessels	N/A	R5112-10	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-98	Storage Tanks/Vessels	N/A	60Kb-07	40 CFR Part 60, Subpart Kb	No changing attributes.
68-95-98	Storage Tanks/Vessels	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-99A	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-99A	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-99A	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-99B	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-99B	Storage Tanks/Vessels	N/A	60Ka-1	40 CFR Part 60, Subpart Ka	No changing attributes.
68-95-99B	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
68-95-99C	Storage Tanks/Vessels	N/A	R5112-9	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-95-99C	Storage Tanks/Vessels	N/A	63CC-2	40 CFR Part 63, Subpart CC	No changing attributes.
68-95-OIL	Storage Tanks/Vessels	N/A	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
68-P-107	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
6N-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
6N-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
6S-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
6S-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
7-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
7-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
7-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
7-16-1	Emission Points/Stationary Vents/Process Vents	N/A	R5121-7-16-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-16-1	Emission Points/Stationary Vents/Process Vents	N/A	63G-7-16-1	40 CFR Part 63, Subpart G	No changing attributes.
7-16-2	Emission Points/Stationary Vents/Process Vents	N/A	56-61-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-16-2	Emission Points/Stationary Vents/Process Vents	N/A	63G-7-16-2	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
7-95-203	Emission Points/Stationary Vents/Process Vents	N/A	R5121-7-95-203	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-95-203	Emission Points/Stationary Vents/Process Vents	N/A	63G-7-95-203	40 CFR Part 63, Subpart G	No changing attributes.
7-95-209	Emission Points/Stationary Vents/Process Vents	N/A	R5121-7-95-209	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-95-209	Emission Points/Stationary Vents/Process Vents	N/A	63G-7-95-209	40 CFR Part 63, Subpart G	No changing attributes.
7-95-210	Emission Points/Stationary Vents/Process Vents	N/A	R5121-7-95-210	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-95-210	Emission Points/Stationary Vents/Process Vents	N/A	63G-7-95-210	40 CFR Part 63, Subpart G	No changing attributes.
8-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
8-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
8-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
86-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
86-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
86-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
86-LOAD	Loading/Unloading Operations	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
86-LOAD	Loading/Unloading Operations	N/A	63G-2	40 CFR Part 63, Subpart G	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
87-0-0	Fugitive Emission Units	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
87-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
87-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
87-LOAD	Loading/Unloading Operations	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
87-LOAD	Loading/Unloading Operations	N/A	63G-2	40 CFR Part 63, Subpart G	No changing attributes.
9-0-0	Fugitive Emission Units	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
9-0-0	Fugitive Emission Units	N/A	63CCVVALL	40 CFR Part 63, Subpart CC	No changing attributes.
9-36-4	Emission Points/Stationary Vents/Process Vents	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
9-36-4	Process Heaters/Furnaces	N/A	R7301-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
9-36-4	FCCU Cat Regen/Fuel Gas Combustion/Claus SRU	N/A	60J9364	40 CFR Part 60, Subpart J	No changing attributes.
9-36-4	Process Heaters/Furnaces	N/A	63DDDDD-HTR	40 CFR Part 63, Subpart DDDDD	No changing attributes.
91-32-4B	SRIC Engines	N/A	R7201-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
91-32-4B	SRIC Engines	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
94-31-001	SRIC Engines	N/A	R7201-3	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
94-31-001	SRIC Engines	N/A	63ZZZZ-6	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PRO-15	Chemical Manufacturing Process	N/A	63F-PRO-15	40 CFR Part 63, Subpart F	No changing attributes.
PRO-17	Chemical Manufacturing Process	N/A	63F-PRO-17	40 CFR Part 63, Subpart F	No changing attributes.
PRO-19	Chemical Manufacturing Process	N/A	63F-PRO-19	40 CFR Part 63, Subpart F	No changing attributes.
PRO-6	Chemical Manufacturing Process	N/A	63F-PRO-6	40 CFR Part 63, Subpart F	No changing attributes.
PRO-7	Chemical Manufacturing Process	N/A	63F-PRO-7	40 CFR Part 63, Subpart F	No changing attributes.
REFVACSYS	Vacuum Producing Systems	N/A	R5311-REFVAC	30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
11-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-36-1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

11-36-1	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
11-36-1	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
11-36-1	EU	60J11361	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-36-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
11-36-5	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

11-36-5	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
11-36-5	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
11-36-5	EU	60J11365	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-36-5	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
121-95-1	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

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14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

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14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
14-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-36-3	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

14-36-3	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
14-36-3	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
14-36-3	EU	60J14363	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-36-3	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
14-36-4	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

14-36-4	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
14-36-4	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
14-36-4	EU	60J14364	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-36-4	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
15-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
15-36-2	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
15-36-2	EU	60J-3	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)
15-36-3	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

15-36-3	EU	R7301-3	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
15-36-3	EU	R7301-3	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
15-36-3	EU	60J-3	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
17-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
17-95-9	EP	R5121-17-95-9	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17-95-9	EP	63G-17-95-9	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

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19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
19-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
20-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
20-36-1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

20-36-1	EU	R7301-4	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
20-36-1	EU	R7301-4	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
20-36-1	EU	60J20361	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
20-36-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

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25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.1-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	R7301-5	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	R7301-5	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For process heaters that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(1) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	R7301-5	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.1-36-1	EU	60J251361	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
25.1-36-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
25.2-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-CS	EU	R7301-6	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-CS	EU	R7301-6	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
25.2-CS	EU	60J252CS	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
25.2-CS	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26-CS	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26-CS	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26-CS	EU	60J26CS	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
26-CS	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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26.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.1-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
26.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
26.2-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.1-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-36-RE	EP	R1111-27.1-RE	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
27.1-36-RE	EP	R5121-27-36-RE	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
27.1-36-RE	EU	60J-2	CO	40 CFR Part 60, Subpart J	§ 60.103(a) § 60.105(a)(2)	No owner or operator shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator any gases that contain carbon monoxide (CO) in excess of 500 ppm by volume (dry basis).	§ 60.105(a)(2) § 60.105(a)(2)(i) § 60.106(a) § 60.106(d)	§ 60.105(a)(2) § 60.105(c)	§ 60.105(e)(2) § 60.107(f) § 60.107(g)
27.1-36-RE	EU	60J-2	PM	40 CFR Part 60, Subpart J	§ 60.102(a)(1)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator particulate matter in excess of 1.0 kg/Mg (2.0 lb/ton) of coke burn-off in the catalyst regenerator.	§ 60.106(a) § 60.106(b) § 60.106(b)(1) § 60.106(b)(2) [G]§ 60.106(b)(3)	§ 60.105(c)	§ 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.1-36-RE	EU	60J-2	PM (Opacity)	40 CFR Part 60, Subpart J	§ 60.102(a)(2)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator gases exhibiting greater than 30 percent opacity, except for one six-minute average opacity reading in any one hour period.	§ 60.105(a)(1) § 60.106(a) § 60.106(b) § 60.106(b)(4)	§ 60.105(a)(1) § 60.105(c)	§ 60.105(e)(1) § 60.107(f) § 60.107(g)
27.1-36-RE	EU	60J-2	SO_2	40 CFR Part 60, Subpart J	§ 60.104(b)(2) § 60.104(c)	For each affected fluid catalytic cracking unit catalyst regenerator without the use of an add-on control device, maintain sulfur oxides emissions calculated as sulfur dioxide to the atmosphere less than or equal to 9.8 kg/Mg (20 lb/ton) coke burn-off.	§ 60.106(a) § 60.106(g) [G]§ 60.106(i) § 60.108(a) § 60.108(c) § 60.108(d) § 60.108(e)	§ 60.105(c) § 60.107(b)(2) § 60.107(b)(4)	§ 60.107(a) § 60.107(c) [G]§ 60.107(c)(1) [G]§ 60.107(c)(3) § 60.107(c)(5) § 60.107(d) § 60.107(f) § 60.107(g) § 60.108(e)
27.1-36-RE	EU	63UUU-2	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.2-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
27.3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-7a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-7a(a)(1) [G]§ 60.482-7a(d) [G]§ 60.482-7a(e) [G]§ 60.482-7a(f) [G]§ 60.482-7a(g) [G]§ 60.482-7a(h) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(e) § 60.482-9a(f) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	At a valve in gas vapor service if an instrument reading of 500 ppm or greater is measured, a leak is detected.	§ 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-1a(g) § 60.482-7a(a)(1) [G]§ 60.482-7a(a)(2) [G]§ 60.482-7a(c) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) § 60.486a(f)(2)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(2) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(i) § 60.487a(c)(2)(ii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-11a(b)(2) § 60.482-11a(b)(3) § 60.482-11a(d) [G]§ 60.482-11a(e) [G]§ 60.482-11a(f)(1) § 60.482-11a(f)(2) § 60.482-11a(g) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(f) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	If an instrument reading greater than or equal to 500 ppm is measured in connectors in gas and vapor and light liquid service, a leak is detected.	§ 60.482-11a(a) § 60.482-11a(b) § 60.482-11a(b)(1) § 60.482-11a(b)(3) § 60.482-11a(b)(3)(i) § 60.482-11a(b)(3)(ii) [G]§ 60.482-11a(b)(3)(iii) § 60.482-11a(b)(3)(iv) § 60.482-11a(c) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-11a(b)(3)(v) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) § 60.486a(e)(9) § 60.486a(f) § 60.486a(f)(1)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(5) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(i) § 60.487a(c)(2)(vii) § 60.487a(c)(2)(viii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(f) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	At a connector in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	At a pressure relief device in light liquid or heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(e) § 60.482-9a(f) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	At a valve in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(d) § 60.482-9a(f) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	At a pump in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-1a(d) § 60.482-1a(a) § 60.482-1a(b) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Equipment that is in vacuum service is excluded from the requirements of §60.482-2a to §60.482-10a, if it is identified as required in §60.486a(e)(5).	[G]§ 60.485a(b)(1) § 60.485a(b)(2)	§ 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-6a(a)(1) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-6a(a)(2) § 60.482-6a(b) § 60.482-6a(c) § 60.482-6a(d) § 60.482-6a(e) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482–1a(c) and paragraphs (d) and (e) of this section.	§ 60.482-1a(g) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d)	§ 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-5a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-5a(b) § 60.482-5a(c) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482–1a(c) and paragraph (c) of this section.	§ 60.482-1a(g) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d)	§ 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-4a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-4a(b)(1) § 60.482-4a(b)(2) § 60.482-4a(c) § 60.482-4a(d)(1) § 60.482-4a(d)(2) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485a(c).	§ 60.482-1a(g) § 60.482-4a(b)(2) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d)	§ 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(10) § 60.486a(e)(3) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	§ 60.482-3a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-3a(b) § 60.482-3a(c) § 60.482-3a(d) § 60.482-3a(e)(2) § 60.482-3a(f) [G]§ 60.482-3a(g) § 60.482-3a(h) [G]§ 60.482-3a(i) § 60.482-3a(j) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482–3a(c) and paragraphs (h), (i), and (j) of this section.	§ 60.482-1a(g) § 60.482-3a(e)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) [G]§ 60.486a(h)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(4) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(v) § 60.487a(c)(2)(vi) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	[G]§ 60.482-2a(b)(1) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-2a(b)(2) § 60.482-2a(b)(2)(ii) § 60.482-2a(c)(1) [G]§ 60.482-2a(c)(2) § 60.482-2a(d) [G]§ 60.482-2a(d)(1) § 60.482-2a(d)(2) § 60.482-2a(d)(3) [G]§ 60.482-2a(d)(6) [G]§ 60.482-2a(e) § 60.482-2a(f) [G]§ 60.482-2a(g) § 60.482-2a(h) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(d) § 60.482-9a(f) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	The instrument reading that defines a leak in a pump in light liquid service is 5,000 parts per million (ppm) or greater for pumps handling polymerizing monomers or 2,000 ppm or greater for all other pumps, as specified in paragraphs (b)(1)(i) and (ii) of this section. §60.482-2a(b)(1)(i)-(ii)	§ 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-1a(g) § 60.482-2a(a)(1) § 60.482-2a(a)(2) § 60.482-2a(b)(2)(i) [G]§ 60.482-2a(d)(4) [G]§ 60.482-2a(d)(5) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d) [G]§ 60.485a(e)	§ 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) § 60.486a(e)(7) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) [G]§ 60.486a(h)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(3) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(iii) § 60.487a(c)(2)(iv) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
27.3-0-0	EU	60VVA-ALL	VOC	40 CFR Part 60, Subpart VVa	[G]§ 60.482-1a(e) § 60.482-1a(a) § 60.482-1a(b) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k)	Equipment that an owner or operator designates as being in VOC service less than 300 hours (hr)/yr is excluded from the requirements of §§ 60.482-2a through 60.482-11a if it is identified as required in §60.486a(e)(6) and it meets any of the conditions specified in paragraphs (e)(1) through (3) of this section. §60.482-1a(e)(1)-(3)	[G]§ 60.485a(b)(1) § 60.485a(b)(2)	§ 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(6)	None
27.3-0-0	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
28-95-300	EU	R5112-12	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

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28-95-300	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
28-95-306	EU	R5112-12	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
28-95-306	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
28-95-316	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None

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28-95-316	EU	60QQQ	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(b) § 60.692-3(e) § 60.692-5(b) § 60.692-5(d) [G]§ 60.692-5(e) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.695(b) § 60.696(a) [G]§ 60.696(b)	§ 60.697(a) § 60.697(c) § 60.697(d) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) § 60.697(f)(3) § 60.697(f)(3)(i) § 60.697(f)(3)(iii) § 60.697(f)(3)(iv) § 60.697(f)(3)(v) § 60.697(f)(3)(vi) § 60.697(f)(3)(vii)	§ 60.695(b) § 60.698(b)(1) § 60.698(e)
28-95-316	EU	61FF-5	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(ii) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(d) [G]§ 61.355(h)	§ 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2) § 61.356(f)(2)(i) § 61.356(f)(2)(i)(G) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(10) § 61.356(j)(2) § 61.356(j)(3)	None
28-95-316	EU	63Gww-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
28.1-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
28.1-61-10	EU	60J-4	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)
28.1-61-9	EU	60J-4	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(iii)	§ 60.105(e)(3)(ii) § 60.107(d) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
28.2-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
28.2-36-2	EP	R1111-28.2-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
28.2-36-2	EU	R200-1	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a)	No person may cause, suffer, allow, or permit emissions of SO2 to exceed the emission limits specified for stack effluent flow rates less than or equal to 4,000 scfm as determined by the specified equation in §112.7(a).	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
28.2-36-2	EU	60J-5	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
28.2-36-2	EU	63UUU-4	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
29-61-1	EU	R1111-29-61-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29-61-1	EP	R5725	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)
29-61-1	CD	60A-29-61-1	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29-61-1	EU	60A-29-61-1	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(2) § 60.103a(d)(3) § 60.103a(d)(4) § 60.103a(d)(5) [G]§ 60.103a(e) § 60.103a(f)	Each owner or operator shall not burn in any affected flare any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(a)(2)(iv) § 60.107a(a)(2)(v) § 60.107a(a)(2)(vi) § 60.107a(e) [G]§ 60.107a(e)(1) [G]§ 60.107a(e)(2) § 60.107a(e)(3) [G]§ 60.107a(f) § 60.107a(i) § 60.107a(i)(2)(i)	§ 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	[G]§ 60.103a(b) [G]§ 60.108a(d)
29-61-1	CD	63A-29-61-1	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
29-95-001	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29-95-439	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
29-95-439	EU	60Kb-04	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
29-95-439	EU	63CC-5	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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29.1-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.1-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-36-001	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-36-001	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.1-36-001	EU	60J29136 01	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
29.1-36-001	EU	63DDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
29.2-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
29.2-36-101.1		R1111-29.2-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-36-CS	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-36-CS	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
29.2-36-CS	EU	60J29236 CS	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
29.2-36-CS	EU	63DDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
3-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
3-36-4	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

3-36-4	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
3-36-4	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
3-36-4	EU	60J3364	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

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3-95-3	EP	R1151	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
3-95-3	EP	R1111-3-95-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
3-95-3	EP	R5121-3-95-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
3-95-3	EU	60J-1	CO	40 CFR Part 60, Subpart J	§ 60.103(a) § 60.105(a)(2)	No owner or operator shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator any gases that contain carbon monoxide (CO) in excess of 500 ppm by volume (dry basis).	§ 60.105(a)(2) § 60.105(a)(2)(i) § 60.106(a) § 60.106(d)	§ 60.105(a)(2) § 60.105(c)	§ 60.105(e)(2) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-95-3	EU	60J-1	PM	40 CFR Part 60, Subpart J	§ 60.102(a)(1)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator particulate matter in excess of 1.0 kg/Mg (2.0 lb/ton) of coke burn-off in the catalyst regenerator.	§ 60.106(a) § 60.106(b) § 60.106(b)(1) § 60.106(b)(2) [G]§ 60.106(b)(3) ** See CAM Summary	§ 60.105(c)	§ 60.107(f) § 60.107(g)
3-95-3	EU	60J-1	PM (Opacity)	40 CFR Part 60, Subpart J	§ 60.102(a)(2)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator gases exhibiting greater than 30 percent opacity, except for one six-minute average opacity reading in any one hour period.	§ 60.106(a) § 60.106(b) § 60.106(b)(4) ** See CAM Summary ** See Alternative Requirements	§ 60.105(c)	§ 60.107(f) § 60.107(g)
3-95-3	EU	60J-1	SO_2	40 CFR Part 60, Subpart J	§ 60.104(b)(1) § 60.104(c) § 60.104(d)	For each affected fluid catalytic cracking unit catalyst regenerator with an add-on control device, reduce sulfur dioxide emissions to the atmosphere by 90 percent or maintain sulfur dioxide emissions to the atmosphere less than or equal to 50 ppm by volume, whichever is less stringent.	§ 60.105(a)(10) § 60.105(a)(11) [G]§ 60.105(a)(12) [G]§ 60.105(a)(13) [G]§ 60.105(a)(8) [G]§ 60.105(a)(9) § 60.106(a) § 60.106(g) [G]§ 60.106(h) [G]§ 60.106(k) § 60.108(a) § 60.108(c) § 60.108(d) § 60.108(e)	§ 60.105(a)(10) § 60.105(a)(11) [G]§ 60.105(a)(12) [G]§ 60.105(a)(13) [G]§ 60.105(a)(8) [G]§ 60.105(a)(9) [G]§ 60.107(b)(1) § 60.107(b)(4)	§ 60.107(a) § 60.107(c) [G]§ 60.107(c)(1) § 60.107(c)(2) [G]§ 60.107(c)(3) [G]§ 60.107(c)(4) § 60.107(d) § 60.107(f) § 60.107(g) § 60.108(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
3-95-3	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
30-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
30-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30-32-21	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
30-32-21	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

30-36-1	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
30-36-1	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
30-36-1	EU	60J30361	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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35-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
35-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-36-1	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-36-1	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
35-36-1	EU	60J35361	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)
35-36-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
35-95-102	EP	R5121-35-102	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

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35-95-102	EU	63UUU-3	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
38-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

38-36-251	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
38-36-251	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
38-36-251	EU	60J3836251	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-36-251	EU	63DDDDD -HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

38-36-252	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(g) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i)(II) § 117.8100(b)(4)(A)(i)(III) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II)(-a-) § 117.8100(b)(4)(C)(iii)(II)(-b-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
38-36-252	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
38-36-252	EU	60J38362 52	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	[G]§ 60.105(a)(3) § 60.106(a) § 60.106(e)(2)	[G]§ 60.105(a)(3)	§ 60.105(e)(3)(i) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
38-36-252	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
39.1-95-118	EU	R200-1	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a)	No person may cause, suffer, allow, or permit emissions of SO2 to exceed the emission limits specified for stack effluent flow rates less than or equal to 4,000 scfm as determined by the specified equation in §112.7(a).	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
39.1-95-118	EU	60J-1	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
39.1-95-118	EU	63UUU-4	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
4-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
4-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5780ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
45-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
45-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-36-1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
45-36-1	EU	R7301-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in § 117.310(c) of this title for that unit.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-36-1	EU	R7301-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
45-36-1	EU	Ja-45361	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.103a(c) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(5) [G]§ 60.103a(e)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	§ 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(i) § 60.107a(i)(1)(ii)	§ 60.108a(a) § 60.108a(c) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
45-36-1	EU	Ja-45361	NO_X	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(2)(i)(B) § 60.102a(a) § 60.102a(g) § 60.102a(g)(2) § 60.102a(g)(2)(i)	For each natural draft process heater with a rated capacity of greater than 40 MMBtu/hr on a higher heating value basis, the owner or operator shall not discharge to the atmosphere any emissions of NOx in excess of 0.040 pounds per million British thermal units (lb/MMBtu) higher heating value basis determined daily on a 30 day rolling average basis.	§ 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) § 60.104a(i)(5) § 60.104a(i)(6) [G]§ 60.104a(i)(6)(i) § 60.104a(i)(7) § 60.104a(i)(8) § 60.107a(c)(3) § 60.107a(c)(4) § 60.107a(c)(5) § 60.107a(c)(6) § 60.107a(d) § 60.107a(d)(8) § 60.107a(i) § 60.107a(i)(3) § 60.107a(i)(3)(i) § 60.107a(i)(5)	§ 60.108a(a) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)
45-36-1	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
5-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
5-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
54-22-11	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
54-22-2	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
54-22-20	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
54-22-21	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
54-22-27	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
54-22-8	EU	63CC-CT1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-000	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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56-0-000	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None
56-0-001	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-0-001	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
56-0-001	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-67	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-67A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-67B	EU	R7201-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-67B	EU	R7201-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(viii)(II) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
56-32-67B	EU	63ZZZZ-5	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-69	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-69	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-69A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-69A	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-69B	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-69B	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-93	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-93	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-93A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-93A	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-93B	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-93B	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-32-93C	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-32-93C	EU	63ZZZZ-4	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-002	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-35-002	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-002	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-002	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-002A	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-002A	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-35-002A	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-002A	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-002B	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-35-002B	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-002B	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-002B	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-005	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-005A	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-005B	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-96	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-35-97	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-35-98	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-61-1	EU	R1111-56-61-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
56-61-1	CD	60A-56-61-1	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-1	EU	60J-6	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(C)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.106(a) ** See Alternative Requirements	§ 60.107(e)	§ 60.107(f) § 60.107(g)
56-61-1	CD	63A-56-61-1	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
56-61-11	EU	R1111-56-61-11	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-11	EP	R5725	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-11	EU	60A-56-61-11	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(2) § 60.103a(d)(3) § 60.103a(d)(4) § 60.103a(d)(5) [G]§ 60.103a(e) § 60.103a(f)	Each owner or operator shall not burn in any affected flare any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(a)(2)(iv) § 60.107a(a)(2)(v) § 60.107a(a)(2)(vi) § 60.107a(e) [G]§ 60.107a(e)(1) [G]§ 60.107a(e)(2) § 60.107a(e)(3) [G]§ 60.107a(f) § 60.107a(i) § 60.107a(i)(2)(i)	§ 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	[G]§ 60.103a(b) [G]§ 60.108a(d)
56-61-11		63A-56-61-11	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-16	EP	R5725	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)
56-61-16	CD	60A-56-61-16	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-16	EU	60A-56-61-16	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(2) § 60.103a(d)(3) § 60.103a(d)(4) § 60.103a(d)(5) [G]§ 60.103a(e) § 60.103a(f)	Each owner or operator shall not burn in any affected flare any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(a)(2)(iv) § 60.107a(a)(2)(v) § 60.107a(a)(2)(vi) § 60.107a(e) [G]§ 60.107a(e)(1) [G]§ 60.107a(e)(2) § 60.107a(e)(3) [G]§ 60.107a(f) § 60.107a(i) § 60.107a(i)(2)(i)	§ 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	[G]§ 60.103a(b) [G]§ 60.108a(d)
56-61-16	CD	63A-56-61-16	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
56-61-17	EU	R1111-56-61-17	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-17	EP	R5725	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)
56-61-17	CD	60A-56-61-17	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-17	EU	60A-56-61-17	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(2) § 60.103a(d)(3) § 60.103a(d)(4) § 60.103a(d)(5) [G]§ 60.103a(e) § 60.103a(f)	Each owner or operator shall not burn in any affected flare any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(a)(2)(iv) § 60.107a(a)(2)(v) § 60.107a(a)(2)(vi) § 60.107a(e) [G]§ 60.107a(e)(1) [G]§ 60.107a(e)(2) § 60.107a(e)(3) [G]§ 60.107a(f) § 60.107a(i) § 60.107a(i)(2)(i)	§ 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	[G]§ 60.103a(b) [G]§ 60.108a(d)
56-61-17	CD	63A-56-61-17	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
56-61-19	EU	R1111-56-61-19	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-19	EP	R5725	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)
56-61-19	CD	60A-56-61-19	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-19	EU	60A-56-61-19	Hydrogen Sulfide	40 CFR Part 60, Subpart Ja	§ 60.103a(h) [G]§ 60.103a(a) [G]§ 60.103a(b) § 60.103a(c) [G]§ 60.103a(c)(1) § 60.103a(d) § 60.103a(d)(1) § 60.103a(d)(2) § 60.103a(d)(3) § 60.103a(d)(4) § 60.103a(d)(5) [G]§ 60.103a(e) § 60.103a(f)	Each owner or operator shall not burn in any affected flare any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3 hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) [G]§ 60.104a(j) § 60.107a(a) § 60.107a(a)(2) § 60.107a(a)(2)(i) § 60.107a(a)(2)(ii) § 60.107a(a)(2)(iii) § 60.107a(a)(2)(iv) § 60.107a(a)(2)(v) § 60.107a(a)(2)(vi) § 60.107a(e) [G]§ 60.107a(e)(1) [G]§ 60.107a(e)(2) § 60.107a(e)(3) [G]§ 60.107a(f) § 60.107a(i) § 60.107a(i)(2)(i)	§ 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	[G]§ 60.103a(b) [G]§ 60.108a(d)
56-61-19	CD	63A-56-61-19	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
56-61-23	EU	R1111-56-61-23	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-61-23	CD	60A-56-61-23	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
56-61-23	EU	60J-6	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(C)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)
56-61-23	CD	63A-56-61-23	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-67-149	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-67-149	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-67-209	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
56-67-209	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-100	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
56-95-100	EU	60Kb-06	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-100	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-100	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-100	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-100	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-249	EU	60Kb-07	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6) § 60.113b(b)(6)(i) § 60.113b(b)(6)(ii) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
56-95-249	EU	61FF-4	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-249	EU	63Gww-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-257	EU	60Kb-07	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6) § 60.113b(b)(6)(i) § 60.113b(b)(6)(ii) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-257	EU	61FF-4	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)
56-95-257	EU	63Gww-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-452	EU	61FF-4	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-452	EU	63Gww-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-453	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-453	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-453	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-453	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-454	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-454	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-454	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-454	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-458	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-458	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-458	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-458	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-459	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-459	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-459	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-459	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-460	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-460	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-460	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-460	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-461	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-461	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-461	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-461	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-467	EU	60Kb-04	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-467	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)
56-95-467	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-467A	EU	60Kb-04	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-467A	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)
56-95-467A	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-56	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-56	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-56	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-56	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-68	EU	60Kb-09	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-68	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)
56-95-68	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-69	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-69	EU	60Kb-06	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
56-95-69	EU	60Kb-10	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)
56-95-69	EU	60Kb-11	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-69	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-69	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-69	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-71	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)
56-95-71	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-72	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-72	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-74	EU	60Kb-04	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
56-95-74	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-74	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-75	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-75	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-75	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-75	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-76	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-76	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-76	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-76	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-94	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-94	EU	60Kb-06	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
56-95-94	EU	60Kb-10	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)
56-95-94	EU	60Kb-11	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-94	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-94	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-94	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-94	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-95	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-95	EU	60Kb-06	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
56-95-95	EU	60Kb-10	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)
56-95-95	EU	60Kb-11	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-95	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-95	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-95	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-95	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-96	EU	61FF-3	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-96	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-99	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
56-95-99	EU	60Kb-06	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-99	EU	61FF-1	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)
56-95-99	EU	61FF-2	Benzene	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(i)(A) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(1) [G]§ 61.355(h) § 61.355(i)(1) § 61.355(i)(2) § 61.355(i)(3)(i) § 61.355(i)(3)(ii) § 61.355(i)(3)(ii)(A) § 61.355(i)(3)(ii)(B) § 61.355(i)(3)(ii)(C) § 61.355(i)(3)(iii) § 61.355(i)(3)(iv) § 61.355(i)(4)	§ 61.354(c) § 61.354(c)(1) § 61.355(i)(1) § 61.355(i)(3)(ii)(A) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(A) [G]§ 61.356(f)(3) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(4)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(A)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-95-99	EU	63Gww-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-95-99	EU	63Gww-3	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
56-P-213	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-P-213	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
56-P-215A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
56-P-215A	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
64-31-009	EU	R7201-3	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
64-31-009	EU	63ZZZZ-7	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
64-31-101	EU	R7201-3	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
64-31-101	EU	63ZZZZ-7	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
64-31-102	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
64-31-102	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
64-31-103	EU	R7201-3	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
64-31-103	EU	63ZZZZ-7	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
64-31-104	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
64-31-104	EU	63ZZZZ-8	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
66-32-98	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-32-98	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
66-67-100	EU	R7201-4	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-67-100	EU	R7201-4	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vii)(II) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-67-100	EU	63ZZZZ-9	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
66-67-101	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-67-101	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
66-67-102	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-67-102	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
66-67-99	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
66-67-99	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
67-32-15	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
67-32-15	EU	63ZZZZ-10	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
68-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-32-297A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
68-32-297A	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-32-318	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
68-32-318A	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-32-318B	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
68-32-41	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-32-41	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
68-95-1	EU	R5112-11	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(C) § 60.18	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-1	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-2	EU	R5112-11	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(C) § 60.18	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
68-95-2	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-201	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-201	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-202	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-202	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-203	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-203	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-204	EU	R5112-6	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-204	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-205	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-205	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-206	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-206	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-207	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-207	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-208	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

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68-95-208	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-209	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-209	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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68-95-210	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-210	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-211	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-211	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-212	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-212	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-213	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-213	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-214	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-214	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-215	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-215	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-216	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-216	EU	63G-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(c) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) § 63.119(c)(2)(i) § 63.119(c)(2)(ii) § 63.119(c)(2)(iii) § 63.119(c)(2)(iv) § 63.119(c)(2)(ix) § 63.119(c)(2)(v) § 63.119(c)(2)(vi) § 63.119(c)(2)(vii) § 63.119(c)(2)(viii) § 63.119(c)(2)(x) § 63.119(c)(2)(xi) § 63.119(c)(2)(xii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8)	Tanks using an external floating roof, (defined in § 63.111), to comply with §63.119(a)(1) shall comply with §63.119(c)(1)-(4).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.123(a) § 63.123(d) § 63.123(g) [G]§ 63.152(a)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) [G]§ 63.122(e)(1) § 63.122(e)(2) § 63.122(e)(3) § 63.122(e)(3)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-217	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-217	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-219	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-219	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-222	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-222	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-223	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-223	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-224	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-224	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-227	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-227	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-228	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-228	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-230	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-230	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-231	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-231	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-232	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-232	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-233	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-233	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-234	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-234	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-235	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-235	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-236	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-236	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-237	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-237	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-238	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-238	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-239	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-239	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-241	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-241	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-245	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-245	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-246	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-246	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-26	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-26	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-27	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-27	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-300	EU	R5112-5	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-300	EU	63G-4	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(e) § 63.11 § 63.119(a)(1) § 63.119(e)(1) § 63.119(e)(3) § 63.119(e)(4) § 63.119(e)(5) [G]§ 63.148(d) § 63.148(e)	The owner or operator who elects to use a closed vent system and control device (defined in § 63.111) to comply with§63.119(a)(1) or (a)(2) shall comply with §63.119(e)(1)-(5).	§ 63.120(e)(1) § 63.120(e)(4) § 63.120(e)(5) § 63.148(b)(2)(iii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2)	§ 63.123(a) [G]§ 63.123(f)(2) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) [G]§ 63.152(a)	[G]§ 63.120(e)(2) § 63.122(c)(2) [G]§ 63.122(g)(1) [G]§ 63.122(g)(3) § 63.148(j) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-31	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-31	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-400	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-400	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None
68-95-400	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-401	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-401	EU	60Ka-3	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(2)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a fixed roof and an internal floating cover with the specified closure device and vents.	§ 60.115a(a) § 60.115a(b) ** See Periodic Monitoring Summary	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-401	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-402	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-402	EU	60Ka-3	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(2)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a fixed roof and an internal floating cover with the specified closure device and vents.	§ 60.115a(a) § 60.115a(b) ** See Periodic Monitoring Summary	§ 60.115a(a)	None
68-95-402	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-403	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-403	EU	60Ka-3	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(2)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a fixed roof and an internal floating cover with the specified closure device and vents.	§ 60.115a(a) § 60.115a(b) ** See Periodic Monitoring Summary	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-403	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-405	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-405	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-405	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-406	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-406	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-408	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-408	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-409	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-409	EU	60Ka-3	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(2)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a fixed roof and an internal floating cover with the specified closure device and vents.	§ 60.115a(a) § 60.115a(b) ** See Periodic Monitoring Summary	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-409	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-410	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-410	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-411	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-411	EU	60Ka-3	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(2)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a fixed roof and an internal floating cover with the specified closure device and vents.	§ 60.115a(a) § 60.115a(b) ** See Periodic Monitoring Summary	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-411	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-412	EU	R5112-11	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(C) § 60.18	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-412	EU	60Ka-7	VOC	40 CFR Part 60, Subpart Ka	§ 60.112a(a)(3)	Vessels storing petroleum liquids with a TVP > 10.3 kPa (1.5 psia) but < 76.6 kPa (11.1 psia) shall have a vapor recovery system and return/disposal system with a > 95% VOC reduction efficiency.	[G]§ 60.113a(a)(2) ** See Periodic Monitoring Summary	None	[G]§ 60.113a(a)(2)
68-95-413	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-413	EU	60Ka-2	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-413	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-414	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-414	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-415	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-415	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-416	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-416	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-418	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-418	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-418	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-419	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-419	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None
68-95-419	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-43	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-43	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-45	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-45	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-46	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-46	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-51	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-51	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-53	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-53	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-54	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-54	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-55	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-55	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-6	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-6	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-66	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-66	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-7	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-7	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-74	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-74	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-75	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-75	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-76	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
68-95-76	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-79	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-79	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-83	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-83	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-84	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-84	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-85	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-85	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-86	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-86	EU	61Y-2	Benzene	40 CFR Part 61, Subpart Y	§ 61.271(a) § 61.271(a)(1) § 61.271(a)(2) § 61.271(a)(2)(iii) § 61.271(a)(3) § 61.271(a)(4) [G]§ 61.271(a)(5) § 61.271(a)(6) [G]§ 61.271(d) § 61.272(a)(3)(ii)	The owner or operator of each storage vessel with a design storage capacity greater than or equal to 38 cubic meters (10,000 gal.) shall equip the vessel with a fixed roof and an internal floating roof.	§ 61.272(a)(1) § 61.272(a)(2) § 61.272(a)(3) § 61.272(a)(3)(ii)	§ 61.276(a) § 61.276(b)	§ 61.272(a)(2) § 61.272(a)(3)(i) § 61.274(a) [G]§ 61.275(a) [G]§ 61.275(b) § 61.275(c)
68-95-87	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-87	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)
68-95-91	EU	61FF-4	Benzene	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-91	EU	63Gww-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.110(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart G	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart G
68-95-92	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-92	EU	61Y-1	Benzene	40 CFR Part 61, Subpart Y	§ 61.271(a) § 61.271(a)(1) § 61.271(a)(2) § 61.271(a)(2)(ii) § 61.271(a)(3) § 61.271(a)(4) [G]§ 61.271(a)(5) § 61.271(a)(6) [G]§ 61.271(d) § 61.272(a)(3)(ii)	The owner or operator of each storage vessel with a design storage capacity greater than or equal to 38 cubic meters (10,000 gal.) shall equip the vessel with a fixed roof and an internal floating roof.	§ 61.272(a)(1) § 61.272(a)(2) § 61.272(a)(3) § 61.272(a)(3)(ii) [G]§ 61.272(a)(4)	§ 61.276(a) § 61.276(b)	§ 61.272(a)(2) § 61.272(a)(3)(i) § 61.274(a) [G]§ 61.275(a) [G]§ 61.275(b) § 61.275(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-93	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-93	EU	61Y-1	Benzene	40 CFR Part 61, Subpart Y	§ 61.271(a) § 61.271(a)(1) § 61.271(a)(2) § 61.271(a)(2)(ii) § 61.271(a)(3) § 61.271(a)(4) [G]§ 61.271(a)(5) § 61.271(a)(6) [G]§ 61.271(d) § 61.272(a)(3)(ii)	The owner or operator of each storage vessel with a design storage capacity greater than or equal to 38 cubic meters (10,000 gal.) shall equip the vessel with a fixed roof and an internal floating roof.	§ 61.272(a)(1) § 61.272(a)(2) § 61.272(a)(3) § 61.272(a)(3)(ii) [G]§ 61.272(a)(4)	§ 61.276(a) § 61.276(b)	§ 61.272(a)(2) § 61.272(a)(3)(i) § 61.274(a) [G]§ 61.275(a) [G]§ 61.275(b) § 61.275(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-94	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-94	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-95	EU	R5112-7	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
68-95-95	EU	63G-1	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7)	Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii)	§ 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a)	§ 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-97	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-98	EU	R5112-10	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-98	EU	60Kb-07	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6) § 60.113b(b)(6)(i) § 60.113b(b)(6)(ii) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
68-95-98	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-99A	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-99A	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None
68-95-99A	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-99B	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-99B	EU	60Ka-1	VOC	40 CFR Part 60, Subpart Ka	§ 60.110a(a)	The affected facility is each storage vessel for petroleum liquids that has a storage capacity > 151,416 L (40,000 gal) and for which construction commenced after 5/18/78 and prior to 7/23/84.	§ 60.115a(a) § 60.115a(b)	§ 60.115a(a)	None
68-95-99B	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
68-95-99C	EU	R5112-9	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
68-95-99C	EU	63CC-2	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
68-95-OIL	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
68-P-107	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6N-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
6S-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
7-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
7-16-1	EP	R5121-7-16-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-16-1	EP	63G-7-16-1	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
7-16-2	EP	56-61-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-16-2	EP	63G-7-16-2	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
7-95-203	EP	R5121-7-95-203	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-95-203	EP	63G-7-95-203	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
7-95-209	EP	R5121-7-95-209	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-95-209	EP	63G-7-95-209	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)
7-95-210	EP	R5121-7-95-210	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-95-210	EP	63G-7-95-210	112(B) HAPS	40 CFR Part 63, Subpart G	[G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f)	Reduce emissions of organic HAP using a flare.§63.113(a)(1)(i)-(ii)	§ 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a)	[G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f)	[G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
8-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
8-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
86-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
86-LOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
86-LOAD	EU	63G-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.126(a) § 63.126(a)(1) § 63.126(a)(2) § 63.126(a)(3) § 63.126(b)(1) [G]§ 63.126(d)(3) § 63.126(f) § 63.126(g) § 63.126(h) [G]§ 63.148(d) § 63.148(e)	For Group 1 transfer racks shall operate a vapor collection system and control device for organic HAPs.	[G]§ 63.116(c) [G]§ 63.126(d)(3) § 63.127(a) § 63.127(a)(1) § 63.127(a)(1)(i) § 63.127(e) § 63.128(a)(1) § 63.128(a)(2) § 63.128(a)(3) § 63.128(a)(4) § 63.128(e)(2) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v)	§ 63.127(a)(1) § 63.129(a)(1) § 63.129(a)(4) § 63.129(a)(4)(i) § 63.129(a)(4)(ii) § 63.129(a)(4)(iii) § 63.130(e) § 63.130(f) § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(ii) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) § 63.152(g)(1) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v) [G]§ 63.152(g)(1)(vi) § 63.152(g)(2) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) § 63.152(g)(2)(iii)	§ 63.129(a)(2) § 63.129(a)(3) § 63.129(a)(4) § 63.129(a)(4)(i) § 63.129(a)(4)(ii) § 63.129(a)(4)(iii) § 63.130(d)(1) § 63.130(d)(2) § 63.148(j) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) § 63.152(g)(1) § 63.152(g)(2)(i) § 63.152(g)(2)(ii)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(g)	None

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87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5780-ALL	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
87-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
87-LOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
87-LOAD	EU	63G-2	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.126(a) § 63.126(a)(1) § 63.126(a)(2) § 63.126(a)(3) § 63.126(b)(1) [G]§ 63.126(d)(3) § 63.126(f) § 63.126(g) § 63.126(h) [G]§ 63.148(d) § 63.148(e)	For Group 1 transfer racks shall operate a vapor collection system and control device for organic HAPs.	[G]§ 63.116(c) [G]§ 63.126(d)(3) § 63.127(a) § 63.127(a)(1) § 63.127(a)(1)(i) § 63.127(e) § 63.128(a)(1) § 63.128(a)(2) § 63.128(a)(3) § 63.128(a)(4) § 63.128(e)(2) § 63.148(b)(1)(ii) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v)	§ 63.127(a)(1) § 63.129(a)(1) § 63.129(a)(4) § 63.129(a)(4)(i) § 63.129(a)(4)(ii) § 63.129(a)(4)(iii) § 63.130(e) § 63.130(f) § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(ii) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) § 63.152(g)(1) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v) [G]§ 63.152(g)(1)(vi) § 63.152(g)(2) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) § 63.152(g)(2)(iii)	§ 63.129(a)(2) § 63.129(a)(3) § 63.129(a)(4) § 63.129(a)(4)(i) § 63.129(a)(4)(ii) § 63.129(a)(4)(iii) § 63.130(d)(1) § 63.130(d)(2) § 63.148(j) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) § 63.152(g)(1) § 63.152(g)(2)(i) § 63.152(g)(2)(ii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
9-0-0	EU	63CCVVALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-36-4	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-36-4	EU	R7301-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-36-4	EU	R7301-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-36-4	EU	60J9364	Hydrogen Sulfide	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.105(a)(4)(iv) § 60.105(a)(4)(iv)(B)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H_2S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from the emission limitation in §60.104(a)(1).	§ 60.106(a)	§ 60.107(e)	§ 60.107(f) § 60.107(g)
9-36-4	EU	63DDDDD-HTR	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
91-32-4B	EU	R7201-1	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
91-32-4B	EU	63ZZZZ-3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
94-31-001	EU	R7201-3	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(6)	None
94-31-001	EU	63ZZZZ-6	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PRO-15	PRO	63F-PRO-15	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(c)	[G]§ 63.103(c) [G]§ 63.104(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)
PRO-17	PRO	63F-PRO-17	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(c)	[G]§ 63.103(c) [G]§ 63.104(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)
PRO-19	PRO	63F-PRO-19	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(c)	[G]§ 63.103(c) [G]§ 63.104(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)
PRO-6	PRO	63F-PRO-6	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(c)	[G]§ 63.103(c) [G]§ 63.104(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PRO-7	PRO	63F-PRO-7	112(B) HAPS	40 CFR Part 63, Subpart F	§ 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d)	Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria.	§ 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(c)	[G]§ 63.103(c) [G]§ 63.104(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e)	§ 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2)
REFVACSYS	EU	R5311-REFVAC	VOC	30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	§ 115.311(a)(1) § 115.312(a)(2) § 115.312(a)(2)(C)	No emission of VOC from steam ejector or mechanical vacuum pump in a petroleum refinery unless vent stream is burned in accordance with §115.312(a) of this title.	[G]§ 115.315(a) § 115.316(a)(1)(B)	§ 115.316(a)(1)(B) § 115.316(a)(3) § 115.316(a)(4)	None

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary **1158**

Periodic Monitoring Summary **1167**

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Maintain the pressure drop across the filter at 14.2 inches of water column or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Pressure to the nozzle shall be 39.0 psig or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 5% of span; or ± 5% of design liquid supply pressure.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Flow Rate and Gas Flow Rate	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum Liquid-to-Gas Ratio (L/G) of 0.078 gpm/dscfm	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM	Main Standard: § 60.102(a)(1)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Maintain the pressure drop across the filter at 14.2 inches of water column or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM	Main Standard: § 60.102(a)(1)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Pressure to the nozzle shall be 39.0 psig or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 5% of span; or ± 5% of design liquid supply pressure.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM	Main Standard: § 60.102(a)(1)
Monitoring Information	
Indicator: Liquid Flow Rate and Gas Flow Rate	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum Liquid-to-Gas Ratio (L/G) of 0.078 gpm/dscfm	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM (Opacity)	Main Standard: § 60.102(a)(2)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Maintain the pressure drop across the filter at 14.2 inches of water column or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM (Opacity)	Main Standard: § 60.102(a)(2)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Pressure to the nozzle shall be 39.0 psig or greater	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 5% of span; or ± 5% of design liquid supply pressure.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-95-3	
Control Device ID No.: 3-95-3	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-1
Pollutant: PM (Opacity)	Main Standard: § 60.102(a)(2)
Monitoring Information	
Indicator: Liquid Flow Rate and Gas Flow Rate	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum Liquid-to-Gas Ratio (L/G) of 0.078 gpm/dscfm	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 2% of span.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 11-36-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 11-36-5	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 121-95-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-3
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: N/A	
Averaging Period: N/A	
Deviation Limit: Not keeping records of tank construction specifications.	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 121-95-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-3
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: N/A	
Deviation Limit: Not completing repairs prior refilling of tank.	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 14-36-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 14-36-4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 15-36-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 15-36-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 20-36-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 25.1-36-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7301-5
Pollutant: NH_3	Main Standard: § 117.310(c)(2)
Monitoring Information	
Indicator: Ammonia injection rate and NOx emissions	
Minimum Frequency: 4 times per hour	
Averaging Period: 1 hour	
Deviation Limit: Maximum NH_3 concentration = 10 ppmv at 3.0% O_2, dry	
Periodic Monitoring Text: Ammonia emissions shall be calculated using the mass balance equation specified in 30 TAC § 117.8130(1) using the difference between the ammonia injection rate and the ammonia reacted as measured by the differential NOx concentration upstream and downstream of the control device that injects urea or ammonia into the exhaust stream. If the hourly average ammonia concentration calculation exceeds 10 ppmv, it shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 28.2-36-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R200-1
Pollutant: SO_2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO_2 Concentration	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Monitoring data which indicates that the SO_2 concentration exceeds the lb/hr limit in 30 TAC § 112.7(a) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the concentration of SO_2 in the exhaust stream of the control device with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum sulfur dioxide concentration (specified in units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 29.2-36-101.1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-29.2-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 3-36-4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 39.1-95-118	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R200-1
Pollutant: SO_2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO_2 Concentration	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Monitoring data which indicates that the SO_2 concentration exceeds the allowable lb/hr limit in 30 TAC § 112.7(a) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the concentration of SO2 in the exhaust stream of the control device with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum sulfur dioxide concentration (specified in units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45-36-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7301-1
Pollutant: CO	Main Standard: § 117.325(a)
Monitoring Information	
Indicator: CO concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Maximum CO concentration = 400 ppmvd @ 3% O_2	
Periodic Monitoring Text: Measure and record the carbon monoxide concentration using a portable analyzer. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method -Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). Any monitoring data below the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45-36-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum opacity = 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-100	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-69	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-94	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-95	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: 56-61-152	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-05
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Temperature = 1400 degrees F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: VOC fugitive emissions equal to or greater than 500 ppm above background shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 56-95-99	
Control Device ID No.: RTO BACKUP	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-06
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Defects detected in the closed vent system shall be reported as a deviation.	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-401	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-3
Pollutant: VOC	Main Standard: § 60.112a(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: If the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-402	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-3
Pollutant: VOC	Main Standard: § 60.112a(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: If the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-403	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-3
Pollutant: VOC	Main Standard: § 60.112a(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: If the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-409	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-3
Pollutant: VOC	Main Standard: § 60.112a(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: If the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-411	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-3
Pollutant: VOC	Main Standard: § 60.112a(a)(2)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: If the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 68-95-412	
Control Device ID No.: 56-61-1	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Ka	SOP Index No.: 60Ka-7
Pollutant: VOC	Main Standard: § 60.112a(a)(3)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Once per hour	
Averaging Period: N/A	
Deviation Limit: The loss of all pilot flames shall be reported as a deviation.	
Periodic Monitoring Text: Measure and record the presence of the pilot flame or maintain records of alarm events and duration of alarm events. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 9-36-4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions shall be reported as a deviation if a Test Method 9 reading is not performed. If an opacity reading is performed, any reading exceeding 30% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Permit Shield

Permit Shield **1221**

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
11-0-0	N/A	40 CFR Part 60, Subpart GGG	Source is subject to 40 CFR Part 63, Subpart CC for equipment leaks.
11-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant. HEP Naptha hydrotreaters are part of refining process unit. See 40 CFR §63.640(a).
11-0-0	N/A	40 CFR Part 60, Subpart VV	Source is not a SOCMI facility.
11-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service. This process unit has less than 5% by weight of benzene based on lab analysis.
11-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
11-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to 40 CFR Part 63, Subpart standard that references 40 CFR Part 63, Subpart H. HEP Naptha hydrotreaters are part of refining process unit. See 40 CFR §63.640(a).
11-36-1	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only
11-36-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
11-36-5	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only
11-36-5	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
121-95-1	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
14-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
14-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
14-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
14-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
14-36-3	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only
14-36-3	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
14-36-4	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only
14-36-4	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
15-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
15-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
15-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
15-36-2	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
15-36-2	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
15-36-3	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel
15-36-3	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
17-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 01/4/1983
17-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
17-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
17-95-1	N/A	40 CFR Part 60, Subpart K	Tank constructed prior to 6/11/73 and has not been modified or reconstructed
17-95-1	N/A	40 CFR Part 60, Subpart Ka	Vessel not storing petroleum liquids
17-95-1	N/A	40 CFR Part 60, Subpart Kb	Vessel built prior to July 23, 1984 and has not been modified or reconstructed
17-95-1	N/A	40 CFR Part 63, Subpart G	Tank is not a part of a HON CMPU
17-95-9	N/A	40 CFR Part 60, Subpart NNN	A Group 1 process vent that is also subject to the provisions of 40 CFR Part 60, Subpart NNN is required to comply only with the provisions of 40 CFR Part 63, Subpart G after the compliance date specified in 40 CFR § 63.100.
17-95-9	N/A	40 CFR Part 63, Subpart CC	Unit 17 is a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
19-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
19-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
19-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981.
20-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
20-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
20-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
20-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
20-0-0	N/A	40 CFR Part 61, Subpart V	No source intended to operate in VHAP service.
20-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
20-36-1	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only.
20-36-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
25.1-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
25.1-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
25.1-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
25.1-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
25.1-0-0	N/A	40 CFR Part 61, Subpart V	No source intended to operate in VHAP service.
25.1-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H
25.1-36-1	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.
25.1-36-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
25.2-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
25.2-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
25.2-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
25.2-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
25.2-0-0	N/A	40 CFR Part 61, Subpart V	No source intended to operate in VHAP service.
25.2-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
25.2-CS	25.2-36-51, 25.2-36-52	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.
25.2-CS	25.2-36-51, 25.2-36-52	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
26.1-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
26.1-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
26.1-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
26.1-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
26.1-0-0	N/A	40 CFR Part 61, Subpart V	No source intended to operate in VHAP service.
26.1-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
26.2-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
26.2-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
26.2-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
26.2-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
26.2-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
26.2-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
27.1-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
27.1-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
27.1-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
27.1-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
27.1-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
27.1-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
27.1-36-RE	N/A	40 CFR Part 63, Subpart CC	Catalytic cracking vents are not included in the definition of affected source.
27.2-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
27.2-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
27.2-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
27.2-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
27.2-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
27.2-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
27.3-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified/reconstructed between 1/4/1983 and 11/7/2006.
27.3-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
27.3-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified/reconstructed between 1/5/1981 and 11/7/2006.
27.3-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
27.3-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
27.3-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
28-95-300	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
28-95-300	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
28-95-300	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
28-95-300	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
28-95-306	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
28-95-306	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
28-95-306	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
28-95-306	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON MCPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
28-95-316	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
28.1-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
28.1-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
28.1-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
28.1-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
28.1-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
28.1-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
28.1-61-10	N/A	30 TAC Chapter 111, Visible Emissions	Emergency only flares are not subject to 30 TAC Chapter 111, Visible Emissions requirements
28.1-61-10	N/A	30 TAC Chapter 115, Vent Gas Controls	There are no process vents routed to this flare.
28.1-61-9	N/A	30 TAC Chapter 111, Visible Emissions	Emergency only flares are not subject to 30 TAC Chapter 111, Visible Emissions requirements
28.1-61-9	N/A	30 TAC Chapter 115, Vent Gas Controls	There are no process vents routed to this flare
28.2-0-0	N/A	40 CFR Part 60, Subpart GGG	Facility does not meet the definition of a process unit.
28.2-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
28.2-0-0	N/A	40 CFR Part 60, Subpart VV	Facility is not a SOCMI process and therefore is not an affected unit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
28.2-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
28.2-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
28.2-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
28.2-36-2	N/A	30 TAC Chapter 115, Vent Gas Controls	Incinerator is used to control H2S, not control VOC streams.
28.2-36-2	N/A	30 TAC Chapter 117, Subchapter B	The sulfur recovery unit incinerator is considered part of the sulfur recovery unit which is exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
28.2-36-2	N/A	40 CFR Part 60, Subpart E	Does not meet the definition of an incinerator. Does not combust solid waste.
29-61-1	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
29-95-001	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
29-95-001	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
29-95-439	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
29-95-439	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
29-95-439	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
29.1-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
29.1-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
29.1-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
29.1-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
29.1-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
29.1-36-001	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.
29.1-36-001	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
29.2-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
29.2-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
29.2-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
29.2-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
29.2-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
29.2-36-CS	29.2-36-101.1, 29.2-36-101.2	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.
29.2-36-CS	29.2-36-101.1, 29.2-36-101.2	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
3-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
3-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant
3-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
3-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
3-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
3-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
3-36-4	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel
3-36-4	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
3-95-3	N/A	40 CFR Part 63, Subpart CC	Catalytic cracking and catalytic reformer regenerator vents are not included in the definition of affected source.
30-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
30-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
30-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service
30-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
30-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
30-32-21	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
30-36-1	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel
30-36-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
35-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
35-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
35-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service
35-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
35-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
35-36-1	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit fires gaseous fuel only.
35-36-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent is a combustion unit exhaust stream which is not being used as a control device for a VOC stream.
35-95-102	N/A	40 CFR Part 63, Subpart CC	Catalytic reformer vents are exempt from MACT CC.
4-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
4-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
4-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
4-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
5-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
5-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
5-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
5-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
5-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
54-22-11	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94.
54-22-14	N/A	40 CFR Part 63, Subpart F	Not applicable-not HON units
54-22-14	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
54-22-16	N/A	40 CFR Part 63, Subpart F	Not applicable- not HON units
54-22-16	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
54-22-18	N/A	40 CFR Part 63, Subpart F	Not applicable-not HON units
54-22-18	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
54-22-1A	N/A	40 CFR Part 63, Subpart F	Does not control a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
54-22-1A	N/A	40 CFR Part 63, Subpart Q	Chromium discontinued as a water treatment chemical prior to 9-8-94.
54-22-1B	N/A	40 CFR Part 63, Subpart F	Not applicable- non HON units
54-22-1B	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
54-22-2	N/A	40 CFR Part 63, Subpart F	Not applicable- not HON units
54-22-2	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
54-22-27	N/A	40 CFR Part 63, Subpart Q	The cooling tower does not use chromium based compounds
54-22-8	N/A	40 CFR Part 63, Subpart Q	Chromium use stopped prior to 9/8/94
56-0-000	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
56-0-000	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
56-0-000	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
56-0-000	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service
56-0-000	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
56-0-000	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
56-0-001	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-0-001	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
56-0-001	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
56-0-001	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
56-0-001	N/A	40 CFR Part 61, Subpart V	No source intended to operate in VHAP service.
56-0-001	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that reference MACT H.
56-32-67	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-67	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002
56-32-67A	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-67A	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002
56-32-69	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-69A	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-32-69B	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-93	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-93A	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-93B	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-32-93C	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-35-002	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
56-35-002	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-35-002	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-35-002A	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
56-35-002A	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-35-002A	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-35-002B	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
56-35-002B	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-35-002B	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-35-005	N/A	40 CFR Part 60, Subpart QQQ	Not constructed or modified after 5/4/1987
56-35-005	N/A	40 CFR Part 61, Subpart FF	Compliance with MACT G constitutes compliance with NESHAP FF.
56-35-005A	N/A	40 CFR Part 60, Subpart QQQ	Not constructed or modified after 5/4/1987
56-35-005A	N/A	40 CFR Part 61, Subpart FF	Compliance with MACT G constitutes compliance with NESHAP FF.
56-35-005B	N/A	40 CFR Part 60, Subpart QQQ	Not constructed or modified after 5/4/1987
56-35-005B	N/A	40 CFR Part 61, Subpart FF	Compliance with MACT G constitutes compliance with NESHAP FF.
56-61-1	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
56-61-11	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
56-61-11	N/A	40 CFR Part 60, Subpart A	Does not control a source regulated by 40 CFR Part 60.

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-61-11	N/A	40 CFR Part 60, Subpart J	Unit was constructed prior to 6/11/73 and has not been modified or reconstructed
56-61-152	N/A	30 TAC Chapter 117, Subchapter B	Incinerator (regenerative thermal oxidizer) with a maximum rate capacity less than 40 MMBtu/hr
56-61-152	N/A	40 CFR Part 60, Subpart E	Does not meet the definition of an incinerator. Does not combust solid wastes.
56-61-16	N/A	30 TAC Chapter 111, Visible Emissions	Emergency only flares are not subject to 30 TAC Chapter 111, Visible Emissions requirements.
56-61-16	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
56-61-16	N/A	40 CFR Part 60, Subpart J	Flare does not combust fuel gas, therefore it does not meet the definition of a fuel gas combustion device.
56-61-17	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
56-61-17	N/A	40 CFR Part 60, Subpart J	Flare does not combust fuel gas, therefore it does not meet the definition of a fuel gas combustion device.
56-61-19	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from 30 TAC 117. 117.209(c)(1) is obsolete.
56-61-23	N/A	30 TAC Chapter 117, Subchapter B	Flares are exempt from the requirements of 30 TAC Chapter 117, Subchapter B, Division 3.
56-67-149	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-67-209	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-100	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-100	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-249	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-249	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-257	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-257	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-452	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-452	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-452	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-453	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
56-95-453	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-453	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-454	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-454	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-458	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-458	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-458	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-459	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons
56-95-459	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-459	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-460	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons
56-95-460	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-460	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-461	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-461	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-461	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-467	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-467	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-467A	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-467A	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-56	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-56	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-56	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-68	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-68	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-69	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-69	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-71	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-71	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-72	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-72	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-74	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-74	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-75	N/A	40 CFR Part 60, Subpart Kb	Design capacity is less than 75 cubic meters
56-95-75	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-75	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-76	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-76	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-76	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-94	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-94	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-95	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-95	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-95-96	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-96	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
56-95-99	N/A	40 CFR Part 60, Subpart QQQ	Group 1 wastewater storage vessel subject to 40 CFR Part 60, Subpart QQQ only required to comply with 40 CFR Part 63, Subpart CC. Unit is meeting the requirements of MACT CC by complying with MACT G as stated in 40 CFR §63.640(o)(2).
56-95-99	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
56-P-213	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-P-215A	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
56-RTO BACKUP	N/A	30 TAC Chapter 117, Subchapter B	Incinerator (regenerative thermal oxidizer) with a maximum rated capacity less than 40 MMBtu/hr
56-RTO BACKUP	N/A	40 CFR Part 60, Subpart E	Does not meet the definition of an incinerator. Does not combust solid waste.
64-31-009	N/A	40 CFR Part 60, Subpart JJJJ	Constructed prior to June 12, 2006 and has not been modified or reconstructed
64-31-101	N/A	40 CFR Part 60, Subpart JJJJ	Constructed prior to June 12, 2006 and has not been modified or reconstructed
64-31-102	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
64-31-103	N/A	40 CFR Part 60, Subpart JJJJ	Constructed prior to June 12, 2006 and has not been modified or reconstructed
66-32-98	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
66-67-101	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
66-67-102	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
66-67-99	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
67-32-15	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
68-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed /modified after 1/4/1983.
68-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of onshore natural gas processing plant.
68-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
68-32-297A	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
68-32-318	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002 and has not been modified or reconstructed
68-32-318A	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-32-318B	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002 and has not been modified or reconstructed
68-95-1	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-1	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-1	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-1	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-2	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-2	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-2	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-2	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-201	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-201	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-201	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-201	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-201	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-202	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-202	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-202	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-202	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-202	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-203	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-203	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-203	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-203	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-203	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-204	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-204	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-204	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-204	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-204	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-205	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-205	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-205	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-205	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-205	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-206	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-206	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-206	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-206	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-206	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-207	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-207	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-207	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-207	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-207	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-208	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-208	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-208	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-208	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-208	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-209	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-209	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-209	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-209	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-209	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-210	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-210	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-210	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-210	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-210	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-211	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-211	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-211	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-211	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-211	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-212	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-212	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-212	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-212	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-212	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-213	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-213	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-213	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-213	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-213	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-214	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-214	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-214	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-214	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-214	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-215	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-215	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-215	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-215	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-215	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-216	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-216	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-216	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-216	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-216	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-217	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-217	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-217	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-217	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-217	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-219	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-219	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-219	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-219	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-219	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-222	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-222	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-222	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-222	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-222	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-223	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-223	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-223	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-223	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-223	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-224	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-224	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-224	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-224	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-224	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-227	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-227	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-227	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-227	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-227	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-228	N/A	40 CFR Part 60, Subpart K	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-228	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-228	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-228	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-228	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-230	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-230	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-230	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-230	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-230	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-231	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-231	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-231	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-231	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-231	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-232	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-232	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-232	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-232	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-232	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-233	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-233	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-233	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-233	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-233	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-234	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-234	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-234	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-234	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-234	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-235	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-235	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-235	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-235	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-235	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-236	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-236	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-236	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-236	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-236	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-237	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-237	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-237	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-237	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-237	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-238	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-238	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-238	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-238	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-238	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-239	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-239	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-239	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-239	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-239	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-241	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-241	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-241	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-241	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-241	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-245	N/A	40 CFR Part 60, Subpart Kb	40 CFR Part 63, Subpart G Group 1 or Group 2 tanks, that are also subject to the provisions of 40 CFR Part 60, Subpart Kb are required to comply only with the provisions of 40 CFR Part 63, Subpart G
68-95-245	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-245	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-245	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-245	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-246	N/A	40 CFR Part 60, Subpart Kb	40 CFR Part 63, Subpart G Group 1 or Group 2 tanks, that are also subject to the provisions of 40 CFR Part 60, Subpart Kb are required to comply only with the provisions of 40 CFR Part 63, Subpart G
68-95-246	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-246	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-246	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-246	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-26	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-26	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-26	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-27	N/A	40 CFR Part 60, Subpart Kb	40 CFR Part 63, Subpart G Group 1 or Group 2 tanks that are also subject to the provisions of 40 CFR Part 60, Subpart Kb are required to only comply with the provisions of 40 CFR Part 63, Subpart G
68-95-27	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-27	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-300	N/A	40 CFR Part 60, Subpart Ka	Storage vessel capacity is less than 40,000 gallons

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-300	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-300	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-302	N/A	30 TAC Chapter 115, Storage of VOCs	Gasoline loading tanks with a volume < 25,000 gallons are not applicable to Subchapter B
68-95-302	N/A	40 CFR Part 60, Subpart Kb	Tank volume does not meet applicability requirements
68-95-302	N/A	40 CFR Part 63, Subpart CC	Tank volume does not meet applicability requirements
68-95-303	N/A	30 TAC Chapter 115, Storage of VOCs	Gasoline loading tanks with a volume < 25,000 gallons are not applicable to Subchapter B
68-95-303	N/A	40 CFR Part 60, Subpart Kb	Tank volume does not meet applicability requirements
68-95-303	N/A	40 CFR Part 63, Subpart CC	Tank volume does not meet applicability requirements
68-95-31	N/A	40 CFR Part 60, Subpart Kb	40 CFR Part 63, Subpart G Group 1 or Group 2 tanks, that are also subject to the provisions of 40 CFR Part 60, Subpart Kb are required to comply only with the provisions of 40 CFR Part 63, Subpart G
68-95-31	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-31	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-400	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-400	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-400	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-400	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-401	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-401	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-401	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-401	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-402	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-402	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-402	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-402	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-403	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-403	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-403	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-403	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-405	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-405	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-405	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-405	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-406	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-406	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-406	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-406	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-406	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-408	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-408	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-408	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-408	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-408	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-409	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-409	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-410	N/A	40 CFR Part 60, Subpart Ka	40 CFR Part 63, Subpart CC Group 1 tanks are required to comply with 40 CFR Part 63, Subpart CC only
68-95-410	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-410	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-410	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-411	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-411	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-412	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-412	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-412	N/A	40 CFR Part 63, Subpart G	Storage vessel does not store hazardous air pollutants
68-95-413	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-413	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-413	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-413	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-414	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-414	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-414	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-414	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-414	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-415	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-415	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-415	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-415	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-415	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-416	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-416	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-416	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-416	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-416	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-418	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-418	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-418	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-418	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-419	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-419	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-419	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-419	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-422	N/A	40 CFR Part 63, Subpart CC	Equipment does not currently contain HAPs in Table 1.
68-95-422	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU.
68-95-43	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-43	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-43	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-43	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-45	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-45	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-45	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-45	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-46	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-46	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-46	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-46	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-51	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-51	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-51	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-51	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-53	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-53	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-53	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-53	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-54	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-54	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-54	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-54	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-55	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-55	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-55	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-55	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-6	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-6	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-6	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-66	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-66	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-66	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-66	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-7	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of stored liquid is less than 0.5 psia
68-95-7	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-7	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-7	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-74	N/A	40 CFR Part 60, Subpart K	Tank constructed prior to 6/11/73.
68-95-74	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-75	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-75	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-75	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-75	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-76	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-76	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-76	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-76	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-79	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of stored liquid is less than 0.5 psia
68-95-79	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-79	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-79	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-83	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-83	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-83	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-84	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-84	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-84	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-85	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-85	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-85	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-86	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-86	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-86	N/A	40 CFR Part 63, Subpart G	40 CFR Part 63, Subpart G Group 2 tanks, that are also subject to the provisions of 40 CFR Part 61, Subpart Y are required to comply only with the provisions of 40 CFR Part 61, Subpart Y
68-95-87	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-87	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-87	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-91	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-92	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-92	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-92	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-92	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G
68-95-92	N/A	40 CFR Part 63, Subpart G	40 CFR Part 63, Subpart G Group 2 tanks, that are also subject to the provisions of 40 CFR Part 61, Subpart Y are required to comply only with the provisions of 40 CFR Part 61, Subpart Y
68-95-93	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-93	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-93	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-93	N/A	40 CFR Part 63, Subpart CC	Storage vessel subject to 40 CFR Part 63, Subpart G

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-93	N/A	40 CFR Part 63, Subpart G	40 CFR Part 63, Subpart G Group 2 tanks, that are also subject to the provisions of 40 CFR Part 61, Subpart Y are required to comply only with the provisions of 40 CFR Part 61, Subpart Y
68-95-94	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-94	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-94	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-94	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-94	N/A	40 CFR Part 63, Subpart CC	Storage vessel does not store hazardous air pollutants
68-95-95	N/A	40 CFR Part 60, Subpart K	Storage vessel was constructed before June 11, 1973 and has not been modified or reconstructed
68-95-95	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-95	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-95	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-95	N/A	40 CFR Part 63, Subpart CC	Storage vessel does not store hazardous air pollutants
68-95-97	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-97	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-97	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-97	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-98	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-98	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-98	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-98	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-99A	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-99A	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-99A	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-99A	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-99B	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-99B	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-99B	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-99B	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-99C	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
68-95-99C	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-99C	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-99C	N/A	40 CFR Part 63, Subpart G	Tank is not associated with a HON CMPU
68-95-OIL	N/A	40 CFR Part 60, Subpart Ka	Storage vessel is not used to store petroleum liquids
68-95-OIL	N/A	40 CFR Part 60, Subpart QQQ	Storage vessel is not a wastewater tank
68-95-OIL	N/A	40 CFR Part 61, Subpart FF	Storage vessel does not manage, treat or store a waste stream subject to 40 CFR Part 61, Subpart FF
68-95-OIL	N/A	40 CFR Part 61, Subpart Y	Storage vessel does not store benzene
68-95-OIL	N/A	40 CFR Part 63, Subpart CC	Storage vessel does not store hazardous air pollutants
68-95-OIL	N/A	40 CFR Part 63, Subpart G	Storage vessel does not store hazardous air pollutants
68-P-107	N/A	40 CFR Part 60, Subpart IIII	Constructed prior to July 11, 2005 and has not been modified or reconstructed
68-P-107	N/A	40 CFR Part 63, Subpart ZZZZ	Emergency compression engine greater than 500 horsepower located at a major source of HAP emissions and constructed prior to 12/19/2002 and has not been modified or reconstructed
6N-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
6N-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
6N-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
6N-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
6N-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
6S-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
6S-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
6S-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
6S-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
6S-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
7-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed after 1/4/1983 and has not been modified or reconstructed
7-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
7-16-1	N/A	40 CFR Part 63, Subpart CC	Emission unit is a HON CMPU.
7-16-2	N/A	40 CFR Part 63, Subpart CC	Emission unit is a HON CMPU.
7-95-203	N/A	40 CFR Part 63, Subpart CC	Emission unit is a HON CMPU.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
7-95-209	N/A	40 CFR Part 60, Subpart NNN	A Group 1 process vent that is also subject to the provisions of 40 CFR Part 60, Subpart NNN is required to comply only with the provisions of 40 CFR Part 63, Subpart G after the compliance date specified in 40 CFR § 63.100.
7-95-209	N/A	40 CFR Part 63, Subpart CC	Emission unit is a HON CMPU.
7-95-210	N/A	40 CFR Part 60, Subpart NNN	A Group 1 process vent that is also subject to the provisions of 40 CFR Part 60, Subpart NNN is required to comply only with the provisions of 40 CFR Part 63, Subpart G after the compliance date specified in 40 CFR § 63.100.
7-95-210	N/A	40 CFR Part 63, Subpart CC	Emission unit is a HON CMPU.
8-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
8-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
8-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
8-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service
8-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
8-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
86-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
86-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
86-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981
86-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
86-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service
86-LOAD	N/A	40 CFR Part 61, Subpart BB	All materials containing benzene (gasoline, NGL, petroleum distillates) that are loaded are specifically exempted under 61.300(a)
86-LOAD	N/A	40 CFR Part 63, Subpart R	Loading facilities located at a refinery complying with MACT CC are not subject to MACT R standards.
87-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.
87-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
87-0-0	N/A	40 CFR Part 60, Subpart VV	Source was not constructed/modified after 1/5/1981.
87-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
87-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
9-0-0	N/A	40 CFR Part 60, Subpart GGG	Source was not constructed/modified after 1/4/1983.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
9-0-0	N/A	40 CFR Part 60, Subpart KKK	Facility is not part of an onshore natural gas processing plant.
9-0-0	N/A	40 CFR Part 60, Subpart VV	Does not produce chemicals in 60.489.
9-0-0	N/A	40 CFR Part 61, Subpart J	Process unit has no equipment in benzene service.
9-0-0	N/A	40 CFR Part 61, Subpart V	No sources intended to operate in VHAP service.
9-0-0	N/A	40 CFR Part 63, Subpart H	Not subject to a MACT standard that references MACT H.
9-36-4	N/A	30 TAC Chapter 112, Sulfur Compounds	Unit does not combust liquid fuel.
94-31-001	N/A	40 CFR Part 60, Subpart JJJJ	Constructed prior to June 12, 2006 and has not been modified or reconstructed

New Source Review Authorization References

New Source Review Authorization References 1283

New Source Review Authorization References by Emission Unit 1285

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX103M4	Issuance Date: 12/08/2023
Nonattainment (NA) Permits	
NA Permit No.: N278	Issuance Date: 12/22/2023
NA Permit No.: N292	Issuance Date: 12/08/2023
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 1486A	Issuance Date: 02/19/2019
Authorization No.: 5689A	Issuance Date: 06/24/2020
Authorization No.: 5920A	Issuance Date: 12/08/2023
Authorization No.: 7467A	Issuance Date: 10/04/2023
Authorization No.: 18142	Issuance Date: 12/22/2023
Authorization No.: 21265	Issuance Date: 11/23/2021
Authorization No.: 22086	Issuance Date: 06/21/2016
Authorization No.: 25389	Issuance Date: 04/20/1994
Authorization No.: 30513	Issuance Date: 01/03/2024
Authorization No.: 49140	Issuance Date: 12/22/2023
Authorization No.: 80806	Issuance Date: 10/08/2020
Authorization No.: 106776	Issuance Date: 12/15/2021
Authorization No.: 118459	Issuance Date: 04/04/2023
Authorization No.: 118699	Issuance Date: 12/22/2023
Authorization No.: 148130	Issuance Date: 09/21/2017
Authorization No.: 158959	Issuance Date: 12/03/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 61	Version No./Date: 09/12/1989
Number: 86	Version No./Date: 09/12/1989
Number: 86	Version No./Date: 07/20/1992
Number: 86	Version No./Date: 09/16/1993
Number: 86	Version No./Date: 05/04/1994
Number: 102	Version No./Date: 05/12/1981
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Number: 106.371	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.475	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 03/14/1997
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
11-0-0	Fugitives	30513, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
11-36-1	Prefractionator Reboiler Heater	30513
11-36-5	Hydrodesulfurization Heater	30513
121-95-1	Fire Field Diesel Tank	106.478/09/04/2000
14-0-0	Fugitives	30513, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
14-36-3	Prefractionator Reboiler Heater	30513
14-36-4	HDS Reactor Charge Heater	30513
15-0-0	Fugitives	5920A, PSDTX103M4, N292
15-36-2	Hydrogen Reduction Furnace	22086
15-36-3	Hydrogen Reactor Feed Preheater	49140
17-0-0	Fugitives	30513, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
17-95-1	Fresh Caustic Tank	106.478/09/04/2000
17-95-9	Benzene Column	30513
19-0-0	Fugitives	22086
20-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
20-36-1	Pentane Reactor Furnace	49140
25.1-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
25.1-36-1	Crude Heater	5920A, PSDTX103M4, N292
25.2-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
25.2-36-51	Reactor Charge Heater	5920A, PSDTX103M4, N292
25.2-36-52	Combo Tower Reboiler	5920A, PSDTX103M4, N292
26.1-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
26.1-36-1	Feed Heater	5920A, PSDTX103M4, N292
26.1-36-1.1	Feed Heater	5920A, PSDTX103M4, N292
26.1-36-2	Recycle Gas Heater	5920A, PSDTX103M4, N292
26.1-36-2.1	Recycle Gas Heater	5920A, PSDTX103M4, N292
26.2-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
27.1-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [158957, 160791], 106.262/11/01/2003 [160791]
27.1-36-RE	Catalytic Cracking Unit	5920A, PSDTX103M4, N292
27.2-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
27.3-0-0	Parallel Gas Plant Fugitives	5920A, PSDTX103M4, N292
28-95-300	DEA Storage Tank	5920A, PSDTX103M4, N292
28-95-306	DEA Storage Tank	5920A, PSDTX103M4, N292
28-95-316	Sour Water Storage Tank	5920A, PSDTX103M4, N292

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
28.1-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
28.1-61-10	Sour Water Flare Stack	5920A, PSDTX103M4, N292
28.1-61-9	DEA Flare Stack	5920A, PSDTX103M4
28.2-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
28.2-36-2	SRU Incinerator Stack	5920A, PSDTX103M4, N292
29-61-1	Coker Flare	5920A, PSDTX103M4, N292
29-95-001	Storage Tank # 001	5920A, PSDTX103M4, N292
29-95-439	Storage Tank # 439	106.478/09/04/2000
29.1-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [151896, 160791], 106.262/11/01/2003 [151896, 160791], 106.263/11/01/2001 [151896], 106.478/09/04/2000 [151896]
29.1-36-001	Vacuum Tower Heater	5920A, PSDTX103M4, N292
29.2-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
29.2-36-101.1	Coker Furnace	5920A, PSDTX103M4, N292
29.2-36-101.2	Coker Furnace	5920A, PSDTX103M4, N292
3-0-0	Fugitives	5920A, PSDTX103M4
3-36-4	No. 1 and 2 Charge Heater	1486A
3-95-3	Catalytic Cracking Unit	49140

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
30-0-0	Fugitives	18142, N278, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
30-32-21	Emergency Engine	106.511/09/04/2000
30-36-1	Isostripper Reboiler Furnace	18142, N278
35-0-0	Fugitives	30513, 106.261/11/01/2003 [155673, 160791], 106.262/11/01/2003 [155673, 160791]
35-36-1	Charge Heater	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
35-95-102	Catalytic Reforming Unit	30513
38-0-0	Fugitives	5920A, PSDTX103M4, N292
38-36-251	Reactor Charge Heater	5920A, PSDTX103M4, N292
38-36-252	Stripper Reboiler	5920A, PSDTX103M4, N292
39.1-95-118	Sulfur Recovery Unit	5920A, PSDTX103M4, N292
4-0-0	Fugitives	5920A, PSDTX103M4, N292
45-0-0	Tier 3 Gasoline Unit Fugitives	118699
45-36-1	USLG Heater	118699
5-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
54-22-11	Heat Exchange System	30513
54-22-14	Cooling Tower # 14	5920A, PSDTX103M4, N292
54-22-16	Cooling Tower # 16	18142, N278
54-22-18	Cooling Tower # 18	30513

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
54-22-1A	Cooling Tower # 1A	49140
54-22-1B	Cooling Tower # 1B	49140
54-22-2	Heat Exchange System	5920A, 30513, PSDTX103M4, N292
54-22-20	Heat Exchange System	5920A, PSDTX103M4, N292
54-22-21	Heat Exchange System	5920A, PSDTX103M4, N292
54-22-27	Cooling Tower	106.371/09/04/2000 [151092]
54-22-8	Heat Exchange System	30513
56-0-000	Fugitives	21265, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
56-0-001	Fugitives	21265
56-32-67	Emergency Engine	106.511/09/04/2000
56-32-67A	Emergency Engine	106.511/09/04/2000
56-32-67B	Emergency Engine	106.511/09/04/2000
56-32-69	Emergency Engine	106.511/09/04/2000
56-32-69A	Emergency Engine	106.511/09/04/2000
56-32-69B	Emergency Engine	106.511/09/04/2000
56-32-93	Emergency Engine	106.511/09/04/2000
56-32-93A	Emergency Engine	106.511/09/04/2000
56-32-93B	Emergency Engine	106.511/09/04/2000
56-32-93C	Emergency Engine	106.511/09/04/2000
56-35-002	Induced Air Flotation Tank	5920A, PSDTX103M4, N292

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
56-35-002A	Induced Air Flotation Tank	5920A, PSDTX103M4, N292
56-35-002B	Induced Air Flotation Tank	5920A, PSDTX103M4, N292
56-35-005	CPI Seperator #1	21265
56-35-005A	CPI Seperator #1	21265
56-35-005B	CPI Seperator #1	21265
56-35-96	RWWS CPI Seperator	21265
56-35-97	RWWS CPI Seperator	21265
56-35-98	RWWS CPI Seperator	21265
56-61-1	Flare # 1	30513
56-61-11	Flare No. 11	22086
56-61-152	Thermal Oxidizer	21265
56-61-16	Flare No. 16	7467A
56-61-17	Flare No. 17	5920A, PSDTX103M4, N292
56-61-19	Flare No. 19	7467A
56-61-23	Flare # 23	18142, N278
56-67-149	Emergency Engine	106.511/09/04/2000
56-67-209	Emergency Engine	106.511/09/04/2000
56-95-100	Dissolved Gas Floatation Tank	21265, 106776
56-95-249	Oily Water Storage Tank	21265
56-95-257	Storage Tank # 257	21265
56-95-452	East and West Slop Oil Recovery Tanks	21265

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
56-95-453	East and West Slop Oil Recovery Tanks	21265, 106776
56-95-454	API Sludge Thickner	21265, 106776
56-95-458	Emulsion Treating Tanks	21265, 106776
56-95-459	Emulsion Treating Tanks	21265, 106776
56-95-460	Slop Water Tank	21265, 106776
56-95-461	Emulsion Treating Tank	21265, 106776
56-95-467	WWS Equalization Tank	61/09/12/1989
56-95-467A	Spare WWS Equalization Tank	61/09/12/1989
56-95-56	Rapid Mix Tank	21265, 106776
56-95-68	AWWS CPI Equalization Tank	21265
56-95-69	Biosystem Aeration Tank	49140, 106776
56-95-71	Biosystem Equalization Tanks	21265, 106776
56-95-72	Biosystem Equalization Tanks	21265
56-95-74	Spent Caustic Tank	21265
56-95-75	RWWS CPI Oil Collection Tank	21265, 106776
56-95-76	RWWS Rapid Tank	21265, 106776
56-95-94	RWWS DAF Effluent Collection Tank	21265, 106776
56-95-95	RWWS DAF Float Collection Tank	21265, 106776
56-95-96	RWWS Collection Tank	21265
56-95-99	Dissolved Gas Floatation Tank	21265, 106776
56-P-213	Emergency Engine	106.511/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
56-P-215A	Emergency Engine	106.511/09/04/2000
56-RTO BACKUP	Thermal Oxidizer	106776
64-31-009	Emergency Engine	106.511/09/04/2000
64-31-101	Emergency Engine	106.511/09/04/2000
64-31-102	Emergency Engine	106.511/09/04/2000
64-31-103	Emergency Engine	106.511/09/04/2000
64-31-104	Emergency Engine	106.511/09/04/2000
66-32-98	Emergency Engine	106.511/09/04/2000
66-67-100	Emergency Engine	106.511/09/04/2000
66-67-101	Emergency Engine	106.511/09/04/2000
66-67-102	Emergency Engine	106.511/09/04/2000
66-67-99	Emergency Engine	106.511/09/04/2000
67-32-15	Emergency Engine	106.511/09/04/2000
68-0-0	Fugitives	49140
68-32-297A	Emergency Engine	106.511/09/04/2000
68-32-318	Emergency Engine	106.511/09/04/2000
68-32-318A	Emergency Engine	106.511/09/04/2000
68-32-318B	Emergency Engine	106.511/09/04/2000
68-32-41	Emergency Engine	106.511/09/04/2000
68-95-1	Storage Tank # 1	30513
68-95-2	Storage Tank #2	86/07/20/1992

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
68-95-201	Storage Tank # 201	49140
68-95-202	Storage Tank # 202	49140
68-95-203	Storage Tank # 203	49140
68-95-204	Storage Tank # 204	49140
68-95-205	Storage Tank # 205	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-206	Storage Tank # 206	30513
68-95-207	Storage Tank # 207	5920A, PSDTX103M4, N292
68-95-208	Storage Tank # 208	5689A
68-95-209	Storage Tank # 209	5689A
68-95-210	Storage Tank # 210	30513
68-95-211	Storage Tank # 211	5689A
68-95-212	Storage Tank # 212	5689A
68-95-213	Storage Tank # 213	5920A, PSDTX103M4, N292
68-95-214	Storage Tank # 214	5920A, PSDTX103M4, N292
68-95-215	Storage Tank # 215	49140
68-95-216	Storage Tank # 216	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-217	Storage Tank # 217	86/05/04/1994
68-95-219	Storage Tank # 219	49140
68-95-222	Storage Tank # 222	22086

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
68-95-223	Storage Tank # 223	5689A
68-95-224	Storage Tank # 224	49140
68-95-227	Storage Tank # 227	22086
68-95-228	Storage Tank # 228	5920A, PSDTX103M4, N292
68-95-230	Storage Tank # 230	5689A
68-95-231	Storage Tank # 231	5689A
68-95-232	Storage Tank # 232	5689A
68-95-233	Storage Tank # 233	5689A
68-95-234	Storage Tank # 234	5689A, 118699
68-95-235	Storage Tank # 235	5689A
68-95-236	Storage Tank # 236	5689A
68-95-237	Storage Tank # 237	5689A
68-95-238	Storage Tank # 238	5689A
68-95-239	Storage Tank # 239	5689A
68-95-241	Storage Tank # 241	5920A, 118699, PSDTX103M4, N292, 86/05/04/1994
68-95-245	Storage Tank # 245	106.478/03/14/1997
68-95-246	Storage Tank # 246	5920A, PSDTX103M4, N292
68-95-26	Storage Tank # 26	49140
68-95-27	Rebuild Tank 27	49140
68-95-300	Wet Solvent Tank	30513

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
68-95-302	Transportation Center Fuel Tank	106.478/09/04/2000
68-95-303	Transportation Center Fuel Tank	106.478/09/04/2000
68-95-31	Storage Tank # 31	106.478/09/04/2000
68-95-400	Storage Tank # 400	49140
68-95-401	Storage Tank # 401	106.478/03/14/1997
68-95-402	Storage Tank # 402	7754A
68-95-403	Storage Tank # 403	7467A
68-95-405	Storage Tank # 405	49140
68-95-406	Storage Tank # 406	49140
68-95-408	Storage Tank # 408	106.478/03/14/1997
68-95-409	Storage Tank # 409	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-410	Storage Tank # 410	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-411	Storage Tank # 411	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-412	Storage Tank # 412	30513
68-95-413	Storage Tank # 413	30513, 106.261/11/01/2003 [147128], 106.478/09/04/2000 [147128]
68-95-414	Storage Tank # 414	7467A
68-95-415	Storage Tank # 415	7467A
68-95-416	Storage Tank # 416	7467A

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
68-95-418	Storage Tank # 418	5920A, PSDTX103M4, N292
68-95-419	Storage Tank # 419	5920A, PSDTX103M4, N292
68-95-422	Storage Tank #422	5920A, PSDTX103M4, N292
68-95-43	Storage Tank # 43	49140
68-95-45	Storage Tank # 45	49140
68-95-46	Storage Tank # 46	49140
68-95-51	Storage Tank # 51	49140
68-95-53	Storage Tank # 53	49140
68-95-54	Storage Tank # 54	49140
68-95-55	Storage Tank # 55	49140
68-95-6	Storage Tank # 6	49140
68-95-66	Storage Tank # 66	30513
68-95-7	Rebuild Tank 7	49140, 106.478/09/04/2000 [158591]
68-95-74	Storage Tank # 74	30513
68-95-75	Storage Tank # 75	30513
68-95-76	Storage Tank # 76	30513
68-95-79	Rebuild Tank 79	49140
68-95-83	Storage Tank # 83	49140
68-95-84	Storage Tank # 84	106.478/03/14/1997
68-95-85	Storage Tank # 85	49140
68-95-86	Storage Tank # 86	49140

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
68-95-87	Storage Tank # 87	49140
68-95-91	Storage Tank # 91	5920A, PSDTX103M4, N292
68-95-92	Storage Tank # 92	30513
68-95-93	Storage Tank # 93	30513
68-95-94	Storage Tank # 94	22086
68-95-95	Storage Tank # 95	22086
68-95-97	Storage Tank # 97	5920A, PSDTX103M4, N292
68-95-98	Storage Tank # 98	5920A, PSDTX103M4, N292
68-95-99A	Storage Tank # 99A	5920A, PSDTX103M4, N292
68-95-99B	Storage Tank # 99B	5920A, PSDTX103M4, N292
68-95-99C	Storage Tank # 99C	5920A, PSDTX103M4, N292
68-95-OIL	Employee Oil Recycling Tank	106.478/09/04/2000
68-P-107	Emergency Engine	106.511/09/04/2000
6N-0-0	Fugitives	7467A
6S-0-0	Unit 6 South Fugitives	7467A
7-0-0	Fugitives	30513, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
7-16-1	Stripper Column	30513
7-16-2	Benzene Recovery Column	30513
7-95-203	Water Stripper Column Vent	30513
7-95-209	Toluene Column Vent	30513

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
7-95-210	Platformate Splitter Vent	30513
8-0-0	Fugitives	5920A, PSDTX103M4, N292, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
86-0-0	Fugitives	49140
86-LOAD	Truck Loading Rack	49140
87-0-0	Fugitives	49140, 106.261/11/01/2003 [160791], 106.262/11/01/2003 [160791]
87-LOAD	Tank Car Loading Rack	49140
9-0-0	Fugitives	5920A, 118459, PSDTX103M4, N292, 106.261/11/01/2003 [158957, 160791], 106.262/11/01/2003 [160791]
9-36-4	Crude Charge Heater	5920A, 118459, PSDTX103M4, N292
91-32-4B	Emergency Engine	106.511/09/04/2000
94-31-001	Emergency Engine	106.511/09/04/2000
PRO-15	Unit 15 MACT F Process ID	5920A, PSDTX103M4, N292
PRO-17	Unit 17 MACT F Process ID	30513
PRO-19	Unit 19 MACT Process ID	22086
PRO-6	Unit 6 MACT F Process ID	7467A
PRO-7	Unit 7 MACT F Process ID	30513
REFVACSYS	Refinery Vacuum System	5920A, PSDTX103M4, N292

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Schedules

Compliance Schedule 1300

Compliance Schedule

A. Compliance Schedule				
1. Specific Non-Compliance Situation				
Unit/Group/ Process ID. No(s).	**SOP Index No.**	**Pollutant**	**Applicable Requirement**	
			Citation	**Text Description**
45-36-1	60Ja-1	NOx	60.107a(c)(3)-(c)(6)	The owner or operator shall install and operate a NOx and O_2 monitor.

2. Compliance Status Assessment Method and Records Location		
Compliance Status Assessment Method		**Location of Records/Documentation**
Citation	**Text Description**	
60.107a(c)(3)-(c)(6)	The owner or operator shall install and operate a NOx and O_2 monitor.	On-site

3. Non-compliance Situation Description
The heater is not equipped with NOx and O_2 monitors.
4. Corrective Action Plan Description
Phillips 66 submitted NSPS Subpart Ja Alternative Monitoring Plan on March 9, 2020. The AMP request is to use O_2 CEM in the radiant section.
5. List of Activities/Milestones to Implement the Corrective Action Plan

1	Currently negotiating the terms and conditions of the AMP with EPA RTP.

6. Previously Submitted Compliance Plan(s)	Type of Action	Date Submitted
	N/A	

7. Progress Report Submission Schedule	Every six months.

Compliance Schedule

A. Compliance Schedule				
1. Specific Non-Compliance Situation				
Unit/Group/ Process ID. No(s).	**SOP Index No.**	**Pollutant**	**Applicable Requirement**	
			Citation	**Text Description**
56-61-152 (RTO), 56-TO-BACKUP (Backup Thermal Oxidizer)	N/A	VOC	30 TAC 116.116(a)(1)	(a) Representations and conditions. The following conditions upon which a permit, special permit, or special exemption are issued: (1) representations with regard to construction plans and operation procedures in an application for a permit, special permit, or special exemption; and (2) any general and special conditions attached to the permit, special permit, or special exemption itself.

2. Compliance Status Assessment Method and Records Location		
Compliance Status Assessment Method		**Location of Records/Documentation**
Citation	**Text Description**	
30 TAC 116.116(a)(1)	(a) Representations and conditions. The following conditions upon which a permit, special permit, or special exemption are issued: (1) representations with regard to construction plans and operation procedures in an application for a permit, special permit, or special exemption; and (2) any general and special conditions attached to the permit, special permit, or special exemption itself.	On-site

3. Non-compliance Situation Description
During RTO switchover to the backup TO, there are intermittent periods when the lean vent stream is uncontrolled and is venting to the atmosphere.

4. Corrective Action Plan Description
Plan is to authorize these short durations of uncontrolled lean vent streams through NSR permit number 21265.

5. List of Activities/Milestones to Implement the Corrective Action Plan	
1	Submit amendment application for NSR permit 21265.

6. Previously Submitted Compliance Plan(s)	Type of Action	Date Submitted
	N/A	

7. Progress Report Submission Schedule	Every six months.

Alternative Requirement

Alternative Requirement..... 1303

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

OCT 2 1 2010

Ms. Cynthia W. Jordy
Environmental Team Leader
ConocoPhillips Sweeny Refinery
P. O. Box 866
Sweeny, Texas 77480

RE: Request for Alternate Monitoring Plan for
Continuous Opacity Monitoring System
Unit 3 Fluid Catalytic Cracking Unit, 40 CFR 60, Subpart J
and 40 CFR 60.13(i)(3)

Dear Ms. Jordy:

On December 5, 2005, ConocoPhillips (COPC) entered into a Consent Decree with the United States, Civil Action No. H-05-258. As a requirement of the Consent Decree, COPC Sweeny Refinery constructed a wet gas scrubber (WGS) at the Unit #3 Fluid Catalytic Cracking Unit (FCCU). Since the moisture in the FCCU exhaust from the WGS will interfere with the ability of the Continuous Opacity Monitoring System (COMS) to take accurate readings, COPC requested approval of an alternative monitoring plan (AMP) with 40 CFR 60.13(i)(3) to demonstrate compliance with the opacity limit 40 CFR 60.102(a)(2).

This letter is in response to your request, dated September 1, 2009, for approval of an AMP to demonstrate compliance with the New Source Performance Standards (NSPS), Subpart J, when the COMS has interference from excessive water at the point of measurement. On March 4, 2010, you proposed three independent parameters for monitoring the Belco WGS and announced a stack test scheduled to start on April 26, 2010. On August 9, 2010 the stack test report was submitted and proposed operating parameters limits (OPLs) were included.

We have reviewed your proposed alternative measures and the stack test report in support and the proposed OPLs and found the data supportive of the AMP request. We therefore approve the following alternative monitoring parameters for the #3 FCCU COMS:

1. monitoring and maintaining the pressure to the nozzles in the Quench/Spray Tower (P19) at 39.0 psig or greater;
2. monitoring and maintaining the pressure drop across the filter/Cyclolabs (AFM P-27) at 14.2 inches of water column or greater;
3. and monitoring and maintaining the minimum Liquid-to-Gas Ratio (L/G) at 0.078 gpm/dscfm or greater.

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If you have any questions or concerns about the AMP approval or data submittal requirements, please do not hesitate to contact Mr. Handrich of my staff at (214) 665-6553.

Sincerely yours,

David F. Garcia
Associate Director
Air/Toxics & Inspection
Coordination Branch

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

NOV 2 2010

RECEIVED
NOV 08 2010

Ms. Cynthia W, Jordy
Environmental Team Leader
ConocoPhillips Sweeny Refinery
P. O. Box 866
Sweeny, Texas 77480

RE: Request for Alternate Monitoring Plan (AMP) for
Use of H2S Stained Tube Indicators
Unit 7 Flare, 40 CFR 60, Subpart J

Dear Ms. Jordy:

ConocoPhillips (COPC) in their letter of December 27, 2007, accepted applicability of the New Source Performance Standards (NSPS) to Unit 7 Flare pursuant to the provisions of a consent decree between the United States and COPC. In COPC's letter of July 30, 2008, they claim an exemption per 40 CFR 60.105(a)(4)(iv) because Flare #7 receives fuel gas waste from catalytic reforming units.

This letter is in response to your request, dated July 30, 2008, asking for approval of an Alternate Monitoring Plan (AMP) to demonstrate compliance with NSPS, Subpart J, for facilities meeting 40 CFR 60.105(a)(4)(iv)(C). We have reviewed your proposed alternative measures and conditionally approve those alternative monitoring parameters. The conditions are the following:

1. The Flare #7 must receive low sulfur/sulfide bearing streams waste fuel gas only from catalytic reformers.;
2. If other sulfur/sulfide bearing streams, streams not from catalytic reformers, enter the Unit 7 stripper and become part of the waste fuel gas stream, COPC must apply for an AMP on the Unit 7 stripper using at least three independent process parameters to ensure a low sulfur/sulfide bearing stripper effluent.; and
3. Any significant increase in the sulfur/sulfide concentration detected in the stream would initiate continuous monitoring under 40 CFR 60.105(a)(3) or (4).

If you have any questions or concerns about the AMP approval or data submittal requirements, please do not hesitate to contact Mr. Handrich of my staff at (214) 665-6553.

Sincerely,

David F. Garcia
Associate Director
Air/Toxics & Inspection
Coordination Branch

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Appendix A

Acronym List 1307

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table 1309

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 38 - Distillate Hydrotreater							
38-0-0	DHT Fugitives (5)	VOC	3.09	13.52	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.09	0.41	29	29	
		NH_3	<0.01	0.01	29	29	
38-36-251	Reactor Charge Heater	VOC	0.53	2.31	6	6	
		NO_x	2.67	7.73	6, 16, 18	6, 16, 17,18	16, 17, 18
		CO	3.60	15.62	6,16,18	6, 16, 17, 18	16, 17, 18
		SO_2	2.60	11.13	3,6	3, 6	
		PM	0.74	3.20	6	6	
		PM_{10}	0.74	3.20	6	6	
		$PM_{2.5}$	0.74	3.20	6	6	
38-36-252	Stripper Reboiler	VOC	0.53	2.34	6	6	
		NO_x	2.67	11.71	6, 16, 18	6, 16, 17, 18	16, 17, 18
		CO	7.13	31.22	6,16,18	6, 16, 17, 18	16, 17, 18
		SO_2	2.60	11.39	3, 6	3, 6	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	0.74	3.23	6	6	
Unit 9 – Crude Unit							
9-0-0	Fugitives (5) (7)	VOC	3.87	16.95	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.01	29	29	
9-36-4	Crude Charge Heater (7)	VOC	1.26	5.53	6, 36	6,36	
		NO_x (6)	16.86	69.29	6, 19, 35, 36	6, 19, 30, 36	
		CO	16.85	40.19	6, 19, 36	6, 19, 36	
		SO_2	6.15	8.42	3, 6, 36	3, 6, 36	
		PM	1.74	7.64	6, 36	6, 36	
		PM_{10}	1.74	7.38	6, 36	6, 36	
		$PM_{2.5}$	1.74	7.38	6, 36	6, 36	
54-22-2	Cooling Tower No. 2	VOC	0.71	3.13	23	23	
		PM	0.68	2.98	24	24	24
		PM_{10}	0.48	2.10	24	24	24
		$PM_{2.5}$	<0.01	0.01	24	24	24

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 25.1 – Sour Crude Unit							
25.1-0-0	Sour Crude Unit Fugitives (5)	VOC	3.48	15.27	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.03	0.08	29	29	
25.1-36-1	Crude Charge Heater	VOC	2.52	11.03	6, 19, 36	6, 19, 30, 36	
		NO_x (6)	93.40	75.68	6,19,35,36	6, 19, 30, 36	
		CO	33.62	80.21	6,19,36	6, 19, 30, 36	
		SO_2 (6)	12.27	53.75	3,6,19,36	3, 6, 19, 30, 36	
		PM (6)	3.48	15.24	6,19,36	6, 19, 30, 36	
		NH_3	2.73	11.96	6,19,36	6, 19, 30, 36	
4-22-14	Cooling Tower No. 14 (5)	VOC	2.94	14.72	23	23	
		PM	2.80	12.27	24	24	24
		PM_{10}	1.98	8.65	24	24	24
		$PM_{2.5}$	0.01	0.03	24	24	24
56-61-16	Expansion HP Flare	VOC	0.02	0.07	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	0.19	0.85	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
Unit 25.2 - Distillate Hydrotreater Unit							
25.2-0-0	DHT Unit Fugitives (5)	VOC	1.91	8.37	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.02	0.05	29	29	
25.2-CS	Reactor Charge Heater	VOC	0.34	1.40	6, 19	6, 19	
		NO_x (6)	10.08	41.53	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		CO	4.54	18.69	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		SO_2 (6)	1.66	6.82	3, 6, 19	3, 6, 19	
		PM (6)	0.47	1.93	6, 19	6, 19	
Combo Tower Reboiler		VOC	0.38	1.40	6, 19	6, 19	
		NOx (6)	11.36	41.53	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		CO	5.11	18.69	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		SO_2 (6)	1.87	6.82	3, 6,19	3, 6, 19	
		PM (6)	0.53	1.93	6, 19	6, 19	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 26.1 – Cat Feed Hydrotreater							
26-CS	ARDS Charge Heater 1	VOC	0.72	2.44	6, 19, 36	6, 19, 36	
		NO_x (6)	16.08	54.23	6, 19, 35, 36	6, 19, 36	
		CO	9.65	17.72	6, 19 ,36	6, 19, 36	
		SO_2 (6)	3.52	11.88	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	1.00	3.37	6, 19, 36	6, 19, 36	
	ARDS Charge Heater 2	VOC	0.72	2.44	6, 19, 36	6, 19, 36	
		NOx (6)	13.40	45.19	6, 19, 35, 36	6, 19, 36	
		CO	9.65	17.72	6, 19, 36	6, 19, 36	
		SO_2 (6)	3.52	11.88	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	1.00	3.37	6, 19, 36	6, 19, 36	
26-CS (continued)	Recycle Heater 1	VOC	0.23	0.95	6, 19, 36	6, 19, 36	
		NO_x (6)	4.20	17.68	6, 19, 35, 36	6, 19, 36	
		CO	3.02	10.57	6, 19, 36	6, 19, 36	
		SO_2 (6)	1.10	4.65	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	0.31	1.32	6, 19, 36	6, 19, 36	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Recycle Heater 2	VOC	0.23	0.95	6, 19, 36	6, 19, 36	
		NO_x (6)	4.20	17.68	6, 19, 35, 36	6, 19, 36	
		CO	3.02	10.57	6, 19, 36	6, 19, 36	
		SO_2 (6)	1.10	4.65	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	0.31	1.32	6, 19, 36	6, 19, 36	
26.1-0-0	CFHT Fugitives (5)	VOC	3.99	17.31	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25,26,28	25
		H_2S	0.31	1.32	29	29	
Unit 26.2 – Hydrogen Purification Unit							
26.2-0-0	HPU Fugitives (5)	VOC	5.02	22.01	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.07	0.27	29	29	
Unit 27 – Fluid Catalytic Cracking Unit							
27.1-0-0	FCC Fugitives (5)	VOC	2.20	9.59	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.02	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	0.02	29	29	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
27.1-36-RE	FCC Regenerator Exhaust	VOC	6.16	26.98	16, 18, 33	16, 17, 18, 33	16,17,18
		NO_x (6)	261.99	114.75	16, 18, 19, 33	16, 17, 18, 19, 30, 33	16, 17, 18
		CO	508.21	1059.56	16, 18, 19, 33	16, 17, 18, 19, 33	16, 17, 18
		SO_2 (6)	547.21	199.73	3, 16, 18, 19, 33	3, 16, 17, 18, 19, 33	16, 17, 18
		PM_{10} (6)	87.99	385.38	16, 18, 33	16, 17, 18, 33	16, 17, 18
		H_2SO_4	22.03	96.49	16, 18, 33	16, 17, 18, 33	16, 17, 18
		NH_3	4.84	21.20	16, 18, 19, 33	16, 17, 18, 19, 33	16, 17, 18
27.2-0-0	FCC Gas Plant Fugitives (5)	VOC	1.65	7.18	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
27.3-0-0	FCC Gas Plant 27.3 Fugitives (5)	VOC	2.76	12.11			
		Benzene	<0.01	<0.01			
27.3 MSS	27.3 Maintenance, Startup and Shutdown	VOC	1.20	<0.01			
56-61-17	Expansion LP Flare	VOC	0.10	0.46	4, 34	4, 34	
		NO_x	0.05	0.23	4, 34	4, 34	
		CO	0.45	1.96	4, 34	4, 34	
		SO_2	0.37	1.60	3, 4, 34	3, 4, 34	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 28 and Unit 39.1 – Sulfur Recovery Units							
28.1-0-0	ARU/SWS Fugitives (5)	VOC	1.19	5.19	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.15	0.64	29	29	
		NH_3	0.09	0.39	29	29	
28.1-61-9	DEA Stripper Flare	VOC	0.04	0.17	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	
		CO	0.34	1.47	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
		H_2S	<0.01	<0.01	3, 4, 34	3, 4, 34	
28.1-61-10	Sour Water Stripper Flare	VOC	0.02	0.08	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	
		CO	0.34	1.47	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
		H_2S	<0.01	<0.01	3, 4, 34	3, 4, 34	
28.2-0-0	SRU Fugitives (5)	VOC	0.76	3.34	25, 26, 28	25, 26, 28	25

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.05	29	29	
		NH_3	0.23	0.99	29	29	
28.2-36-2	Unit 28 Incinerator Stack	VOC	0.93	4.09	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		NO_x (6)	8.13	35.62	16, 18, 22, 32, 34	16, 17, 18, 22, 30, 32, 34	16, 17, 18, 32
		CO	20.03	87.72	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		SO_2 (6)	114.45	501.27	3, 9, 16, 18, 19, 22, 32, 34	3, 9, 16, 17, 18, 19, 22, 32, 34	16, 17, 18, 32
		PM (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		PM_{10} (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		$PM_{2.5}$ (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		H_2SO_4 (6)	1.33	5.83	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		H_2S	2.43	10.65	3, 16, 18, 21, 22, 32, 34	3, 16, 17, 18, 21, 22, 32, 34	16, 17, 18, 32
39.1-95-118	Unit 39.1 Incinerator Stack	VOC	0.24	1.04	16, 18, 22	16, 17, 18, 22	16, 17, 18
		NO_x (6)	2.37	10.37	16,18,22	16, 17, 18, 22	16, 17, 18
		CO	8.95	39.22	16,18,22	16, 17, 18, 22	16, 17, 18

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2 (6)	51.17	224.12	3, 9, 16, 18, 19, 22	3, 9, 16, 17, 18, 19, 22	16, 17, 18
		PM (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		PM_{10} (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		$PM_{2.5}$ (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		H_2SO_4 (6)	0.66	2.89	16, 18, 22	16, 17, 18, 22	16, 17, 18
		H_2S	1.09	4.76	3, 16, 18, 21, 22	3, 16, 17, 18, 21, 22	16, 17, 18
28.2-36-2 and 39.1-95-118 Combined Emissions	Unit 28 and Unit 39.1 Incinerator Stacks	VOC	-	4.09			
		NO_x (6)	-	35.62			
		CO	-	87.72			
		SO_2 (6)	-	326.80			
		PM (6)	-	16.78			
		PM_{10} (6)	-	16.78			
		$PM_{2.5}$ (6)	-	16.78			
		H_2SO_4 (6)	-	5.83			
		H_2S	-	9.59			
28-95-300	DEA Tank	VOC	0.05	0.01	5	5	5

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
28-95-316	Sour Water Surge Tank 316	VOC	0.15	0.02	5, 13, 14	5, 13, 14	5
		Benzene	<0.01	<0.01	5, 13, 14	5, 13, 14	5
		H_2S	1.56	0.17	5, 13, 14	5, 13, 14	5
		NH_3	1.04	0.11	5, 13, 14	5, 13, 14	5
68-95-91	Sour Water Surge Tank 91	VOC	2.59	9.03	5, 13	5, 13	5
		Benzene	<0.01	0.03	5, 13	5, 13	5
		H_2S	0.02	0.07	5, 13	5, 13	5
		NH_3	0.01	0.05	5, 13	5, 13	5
68-95-91A	Sour Water Storage Tank	VOC	0.20	0.69	5, 13	5, 13	5
		H_2S	0.01	0.01	5, 13	5, 13	5
		NH_3	0.01	0.01	5, 13	5, 13	5
68-95-97	Sour Water Surge Tank 97	VOC	1.79	6.28	5, 13	5, 13	5
		Benzene	<0.01	0.02	5, 13	5, 13	5
		H_2S	0.01	0.05	5, 13	5, 13	5
		NH_3	0.01	0.03	5, 13	5, 13	5
28-95-306	MDEA Tank	VOC	0.02	<0.01	5	5	5

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
39.1-0-0	Piping Fugitives (5)	VOC	0.40	1.76	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.45	1.96	29	29	
		NH_3	0.09	0.39	29	29	
39.1-95-114	MDEA Tank	VOC	0.06	<0.01	5	5	5
39.1-95-121	Process Sewer Sump	VOC	<0.01	0.01	5	5	5
39.1-X-X	Cooling Tower No. X	VOC	0.11	0.46	23	23	
		PM	0.13	0.55	24	24	24
		PM_{10}	0.09	0.39	24	24	24
		$PM_{2.5}$	<0.01	<0.01	24	24	24
Unit 29.1 Vacuum Unit							
29-61-1	Flare	VOC	0.86	1.02	4, 34	4, 34	
		NO_x	0.24	0.69	4, 34	4, 34	
		CO	1.26	3.58	4, 34	4, 34	
		SO_2	4.56	19.97	3, 4, 34	3, 4, 34	
		H_2S	0.01	0.01	4, 34	4, 34	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
29.1-0-0	Vacuum Fugitives (5)	VOC	2.19	9.43	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.01	29	29	
29.1-36-001	Vacuum Unit Heater	VOC	2.04	7.13	6, 36	6, 36	
		NO_x	22.65	79.37	6, 16, 18, 35, 36	6, 16, 17, 18, 30, 36	16, 17, 18
		CO	27.18	51.88	6, 16, 18, 36	6, 16, 17, 18, 36	16, 17, 18
		SO_2	8.00	28.05	3, 6, 36	3, 6, 36	
		PM	2.81	9.86	6, 36	6, 36	
54-22-20	Cooling Tower No. 20 (5)	VOC	1.18	5.17	23	23	
		PM	1.41	6.16	24	24	24
		PM_{10}	0.99	4.34	24	24	24
		$PM_{2.5}$	<0.01	0.01	24	24	24
Unit 29.2 – Delayed Coker							
29.2-0-0	Coker Fugitives (5)	VOC	5.64	24.69	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.22	0.92	29	29	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
29.2-0-1	Coke Handling Fugitives (5)	PM	1.95	2.23			
29.2-36-CS	Coker Heater A	VOC	1.46	4.96	6	6, 41	
		NO_x	16.20	54.18	6, 16, 18, 19, 35	6, 16, 17, 18, 19, 30, 41	16, 17, 18
		CO	9.89	33.71	6, 16, 18, 19	6, 16, 17, 18, 19, 41	16, 17, 18
		SO_2	5.27	17.96	3, 6	3, 6, 41	
		PM	2.01	6.85	6	6, 41	
		PM_{10}	2.01	6.85	6	6, 41	
		$PM_{2.5}$	2.01	6.85	6	6, 41	
29.2-36-CS	Coker Heater B	VOC	1.46	4.96	6	6, 41	
		NO_x	16.20	54.18	6, 16, 18, 19	6, 16, 17, 18, 19, 30, 41	16, 17, 18
		CO	9.89	33.71	6, 16, 18, 19	6, 16, 17, 18, 19, 41	16, 17, 18
		SO_2	5.27	17.96	3,6	3, 6, 41	
		PM	2.01	6.85	6	6, 41	
		PM_{10}	2.01	6.85	6	6, 41	
		$PM_{2.5}$	2.01	6.85	6	6, 41	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
29.2-CDC-0	Coke Drum Cutting Fugitives	VOC	14.62	8.01			
		H_2S	3.21	1.76			
29.2-CDW-0	Coke Drum Water Fugitives	VOC	5.25	7.19			
29.2-V-CAP	Coker Drum Cap	VOC	19.43	10.64			
		PM	4.21	2.31			
		PM_{10}	4.21	2.31			
		$PM_{2.5}$	4.21	2.31			
		H_2S	4.26	2.33			
Storage Tanks							
68-95-99A	Gas Oil Storage Tank	VOC	34.35	6.85	5	5	5
68-95-99B	Gas Oil Storage Tank	VOC	16.95	6.85	5	5	5
68-95-99C	Gas Oil Storage Tank	VOC	36.00	6.85	5	5	5
68-95-213	Alkylate Storage Tank	VOC	1.56	6.79	5	5	5
68-95-228	Gasoline Storage Tank	VOC	1.03	2.47	5	5	5
68-95-246	DAC Storage Tank	VOC	0.32	1.31	5	5	5
68-95-418	Gas Oil Storage Tank	VOC	36.00	14.66	5	5	5

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
68-95-419	Gas Oil Storage Tank	VOC	34.35	14.66	5	5	5
68-95-401	Storage Tank 401	VOC	0.16	0.43			
29-95-439	Storage Tank 439	VOC	0.24	0.44			
Miscellaneous Fugitive Areas							
3-0-0	Unit 3 Fugitives (5)	VOC	2.60	11.38	25, 26 ,28	25, 26, 28	25
		Benzene	<0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
4-0-0	Unit 4 Fugitives (5)	VOC	2.47	10.84	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
5-0-0	Unit 5 Fugitives (5)	VOC	1.88	8.22	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
8-0-0	Unit 8 Fugitives (5)	VOC	0.47	2.01	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
15-0-0	Unit 15 Fugitives (5)	VOC	3.97	17.40	25, 26, 28	25, 26, 28	25

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Benzene	0.06	0.26	25, 26, 28	25, 26, 28	25
20-0-0	Unit 20 Fugitives (5)	VOC	2.61	11.41	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.03	25, 26, 28	25, 26, 28	25
68.1-0-0	Refinery Tank Farm Fugitives (5)	VOC	8.85	40.52	25, 26, 27, 28	25, 26, 27, 28	25
		Benzene	0.11	0.49	25, 26, 27, 28	25, 26, 27, 28	25
		H_2S	0.01	0.01	25, 26, 27, 28	25, 26, 27, 28	25
		NH_3	0.04	0.19	25, 26, 27, 28	25, 26, 27, 28	25
68.2-0-2	Refinery Tank Farm Fugitives (5)	VOC	3.05	13.38	25, 26, 27, 28	25, 26, 27, 28	25
		Benzene	0.12	0.53	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	25, 26, 28	25, 26, 28	25
DSLRAIL	Diesel Loading	VOC	0.81	2.61	29, 30	29	
DSLFUG	Diesel Fugitives	VOC	0.15	0.64	25, 26, 27, 28	25, 26, 27, 28	25
BASELINE EMISSIONS FOR EPNS LISTED IN TABLE 1							
		VOC		776.38			
		NO_x		1775.10			
		CO		1417.60			

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM		755.70			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
NH_3 - ammonia
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid mist
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Emissions are covered under PSD-TX-103M4.
(7) Refer to Pollution Control Project authorized under Standard Permit Registration No. 118459 for current authorized emission rates.

Major NSR Summary Table

Permit Numbers: 18142 and N278					Issuance Date: December 22, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
30-36-1	Isostripper Reboiler	CO	2.75	11.43	12, 13, 14	14	
		NOx	4.34	17.99			
		PM	0.71	2.94			
		PM_{10}	0.71	2.94			
		$PM_{2.5}$	0.71	2.94			
		SO_2	0.06	0.23			
		VOC	0.51	2.13			
30-0-0	Trycock HF Losses	HF	0.45	0.01	19, 20	19, 22	
56-61-23	Unit 30 Flare (Waste Gas and Purge Gas Used)	CO	3.06	9.72	24, 27	24, 27	27
		NOx	1.53	4.87			
		SO_2	0.01	0.02			
		VOC	4.57	8.13			
54-22-16	Cooling Tower	HF(6)	0.01	0.01	15, 16	15, 16	
		VOC	1.34	5.89			
		PM	0.88	2.10			
		PM_{10}	0.88	2.10			
		$PM_{2.5}$	0.25	0.79			
30-0-0	Process Fugitives (5)	VOC	5.96	26.10	4, 6, 7, 8, 9	4, 6, 7, 8, 9	

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide

PM	- total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10}	- total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
HF	- total fluorides are shown which includes hydrogen fluoride

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Total fluorides are shown which includes hydrogen fluoride.

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 1:39 PM
To: Alfredo Mendoza
Cc: Mareno, Katie
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

I will wait on your call.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Tuesday, March 5, 2024 1:38 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: [EXTERNAL]Re: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I will give you a call after 2:00 today. I am working from home and I have a meeting at 1:45 today.

Thanks,

Alfredo Mendoza, P.E.

Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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https://www.tceq.texas.gov/customersurvey

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 8:04 AM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

Alfredo,

I wanted to run this draft response and the updates to OP-UA50 Tables as requested before finalizing same. I will call to touch base after 2:00 PM.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22,

2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 1:38 PM
To: Alfredo Mendoza
Subject: FW: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626
Attachments: [EXTERNAL]5920A - Approval - Phillips 66 Company - 364113; OPUA50 form Tbl 1a Sbprt Jv1.docx; Response to NOD1.docx

Can I call you?

From: Jaini, Vinod K
Sent: Tuesday, March 5, 2024 8:04 AM
To: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Cc: Mareno, Katie <Katie.Mareno@p66.com>
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
  PSX Reply: These heaters were constructed anywhere pre 1973. Consistent with the Consent Decree obligations, Phillips 66 is accepting NSPS Subpart J. I updated OP-UA50 as requested.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
  PSX Reply: Table 1a has been updated as requested.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
  PSX Reply: Table 1a has been updated as requested.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
  PSX Reply: Table 1b was updated as requested.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

PSX Reply: Table 2a, Table 2c and Table 2d were updated. I appreciate your patience.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

PSX Reply: I am attaching the December 8, 2023 air permit conditions. The MAERT was not revised. The air permit conditions were updated as part of NSR modifications driven by consent decree.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
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ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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Texas Commission on Environmental Quality

Form OP-UA50
Fluid Catalytic Cracking Unit Catalyst Regenerator/ Fuel Gas Combustion Device/Claus Sulfur Recovery Plant/ Coking Unit Attributes

General:

This form is used to provide a description and data pertaining to the following units with potentially applicable requirements associated with a particular regulated entity number and application:

- Fluid catalytic cracking unit (FCCU) catalyst regenerators located at a petroleum refinery;
- Catalytic Reforming Unit (CRU) located at a petroleum refinery;
- Fuel gas combustion devices located at a petroleum refinery;
- Claus sulfur recovery plants located at a petroleum refinery;
- Claus sulfur recovery plants located outside a petroleum refinery boundaries but processing gases produced within a petroleum refinery, or; Coking units.

Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a unit, then it should be left blank and need not be submitted with the application. If the codes entered by the applicant show negative applicability to the rule or sections of the rule represented on the table, then the applicant need not complete the remainder of the table(s) that corresponds to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the "Specific" section of the instruction text. The following is included in this form:

Tables 1a - 1b:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries**
Tables 2a – 2e:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007**
Tables 3a - 3e:	**Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries**
Tables 4a - 4b:	**Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Area**

The application area name from Form OP-1 entitled "Site Information Summary" must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (MM-DD-YYYY). **Leave the permit number blank for the initial form submittal.** If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is *not* required. **Anytime a response is *not* required based on the qualification criteria, leave the space on the form *blank*.**

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate "N/A" for "Not Applicable") if the attribute is not needed for the applicable requirement determinations of regulation for a unit.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ Executive Director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) **requires** that a Core Data Form be submitted on **all** incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and no core data information has changed. The Central Registry is a common record area of the TCEQ which maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core Data Form must be completed and submitted with the application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ website at www.tceq.texas.gov/nav/permitting.

Specific:

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart J: Standards of Performance for Petroleum Refineries

★ **Complete this table only for FCCU catalyst regenerators located at a petroleum refinery, fuel gas combustion devices located at a petroleum refinery, and Claus sulfur recovery plants processing gases produced within a petroleum refinery. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery.**

★ **Do not complete Tables 1a-1b if you are choosing to comply with the applicable provisions of Subpart Ja to satisfy the requirements of this subpart as stated in §60.100(e). Skip to Tables 2a-2b and complete.**

★ **Do not complete Tables 1a-1b if flares only burn process upset gases and fuel gases due to relief valve leakage or other emergency malfunctions.**

Unit ID No.:
Enter the identification number (ID No.) for the FCCU catalyst regenerator, fuel gas combustion device, or Claus sulfur recovery plant (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Facility Type:
Select **one** of the following options for each facility type. Enter the **code** on the form.

Code	Description
FCCU	FCCU catalyst regenerator
FLARELOW	Fuel gas combustion device, that is also a flare, that meets the requirements in § 60.105(a)(4)(iv) and §60.105(b) [inherently low in sulfur content]
FLAREHI	Fuel gas combustion device, that is also a flare, that does NOT meet requirements in § 60.105(a)(4)(iv) and 60.105(b)
FUELOW	Fuel gas combustion device, other than a flare, that meets the requirements in § 60.105(a)(4)(iv) and 60.105(b) [inherently low in sulfur content]
FUELHI	Fuel gas combustion device, other than a flare, that does NOT meet the requirements in § 60.105(a)(4)(iv) and 60.105(b)
SR20-	Claus sulfur recovery plant with a design capacity for sulfur feed less than or equal to 20 long tons per day (LTPD)
SR20+OCS	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with oxidation control systems
SR20RCS+I	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems followed by incineration
SRRCS+CON	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems **not** followed by incineration and using an instrument to continuously monitor and record the concentration of reduced sulfur and O_2 emissions
SRRCS-CON	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems **not** followed by incineration and is **not** using an instrument to continuously monitor and record the concentration of reduced sulfur and O_2 emissions

▼ **Do not continue if "Facility Type" is "SR20-."**

Construction/Modification Date:
Select **one** of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the facility. Enter the **code** on the form.

For "Facility Type" designation of "FCCU":

Code	Description
73-B	On or before June 11, 1973
73-84	After June 11, 1973, and on or before January 17, 1984
84-07	After January 17, 1984, and on or before May 14, 2007
07+	After May 14, 2007

For "Facility Type" designation of "FLAREHI" or "FLARELOW":

Code	Description
73-B	On or before June 11, 1973
73-08	After June 11, 1973, and on or before June 24, 2008
08+	After June 24, 2008

For "Facility Type" designation of "FUELHI" or "FUELOW":

Code	Description
73-B	On or before June 11, 1973
73-07	After June 11, 1973, and on or before May 14, 2007
07+	After May 14, 2007

For "Facility Type" designation of "SR20+OCS", "SR20RCS+I," "SRRCS+CON", or "SRRCS-CON":

Code	Description
76-	On or before October 4, 1976
76-07	After October 4, 1976, and on or before May 14, 2007
07+	After May 14, 2007

▼ **Do not continue if "Construction/Modification Date" is "73-B," "76-," "07+," or "08+."**

★ **Go to Table 1b if "Facility Type" is "FLARELOW," "FLAREHI", "FUELLOW," or "FUELHI."**

▼ **Do not continue if "Facility Type" is "SR20+OCS", "SR20RCS+I," "SRRCS+CON", or "SRRCS-CON."**

Contact Material:

Enter "YES" if the FCCU catalyst regenerator has a contact material that reacts with petroleum derivatives to improve feedstock quality in which the contact material is regenerated by burning off coke and/or other deposits. Otherwise, enter "NO."

▼ **Do not continue if "Contact Material" is "YES" and "Construction/Modification Date" is "73-84."**

★ **Complete "Sulfur Content" only if "Construction/Modification Date" is "84- 07."**

Sulfur Content:
Select **one** of the following options to demonstrate which sulfur oxide compliance option the FCCU is utilizing. Enter the **code** on the form.

Code	Description
FEED	Measuring the total sulfur content in the FCCU fresh feed
CD	The FCCU uses an add-on control device to control SO_2 emissions
NOCD	The FCCU does not use an add-on control device to control SO_2 emissions

Discharged Gases:
Enter "YES" if gases discharged by the FCCU pass through an incinerator or waste heat boiler in which auxiliary or supplemental liquid or solid fossil fuel is burned. Otherwise, enter "NO".

CO Monitoring:
Enter "YES" if you have demonstrated to the Administrator that the average CO emissions are less than 50 ppm (dry basis). Otherwise, enter "NO."

★ **Complete "CO Exemption ID" only if "CO Monitoring" is "YES."**

CO Exemption ID:
Enter the CO Monitoring Exemption ID or date of the approval letter from the Administrator. Otherwise, leave this column blank. *(Submit the approval letter with your application).*

▼ **Do not continue if "Facility Type" is "FCCU".**

Table 1b: **Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart J: Standards of Performance for Petroleum Refineries**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU catalyst regenerator, fuel gas combustion device, or Claus sulfur recovery plant (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ Website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "Low Sulfur" only if "Facility Type" is "FUELOW" or "FLARELOW".**

Low Sulfur:
Select **one** of the following options that describes which fuel gas stream is inherently low in sulfur. Enter the **code** on the form.

Code	Description
PILOT	Fuel gas stream that is pilot gas for heaters and flares
30PPMV	Fuel gas stream that meets a commercial-grade product specification for the sulfur content of 30 ppmv or less
INTOL	Fuel gas stream that is intolerant to sulfur contamination
OTHER	Fuel gas stream that has been demonstrated to the Administrator according to § 60.105(a)(4)(iv)(D) and §60.105(b)

★ **Complete "SO2 Exemption ID" only if "Low Sulfur" is "OTHER".**

SO2 Exemption ID:
Enter the SO2 Monitoring Exemption ID or date of the approval letter from the Administrator. Otherwise, leave this column blank. *(Submit the approval letter with your application).*

★ **Complete "Monitoring Device" only if "Facility Type" is "FUELHI" or "FLAREHI".**

Monitoring Device:
Enter "YES" if an instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere. Otherwise, enter "NO."

Table 2a: **Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007**

★ **Complete this table only for fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including flares and process heaters), and sulfur recovery plants located at petroleum refineries. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Facility Type:
Select one of the following options for each facility type. Enter the code on the form.

Code	Description
FCCU	fluid catalytic cracking unit
FCU	fluid coking unit
DCUFLR	delayed coking unit that vents exhaust vapor to a flare
DCUFUEL	delayed coking unit that vents exhaust vapor to a fuel gas combustion device, other than a flare or a process heater
DCUFUELCO	delayed coking unit that vents exhaust vapor to a CO boiler or furnace that is part of a FCCU/FCU affected facility
DCUFUELEX	delayed coking unit that vents exhaust vapor to a portable generator of fuel gas used for tank degreasing and/or cleaning
DCUPH	delayed coking unit that vents exhaust vapor to a process heater used as a fuel gas combustion device
FLARE	flare that is used for fuel gas combustion
PROHTR	process heater that is used for fuel gas combustion
FUEL	fuel gas combustion device, other than a flare or process heater
FUELCO	CO boiler or furnace that is part of a FCCU/FCU affected facility
FUELEX	portable generator of fuel gas used for tank degreasing and/or cleaning
SR20+	sulfur recovery plant greater than 20 long tons per day (LTPD
SR20-	sulfur recovery plant less than or equal to 20 LTPD

★ **Complete "Construction/Modification Date" only if "Facility Type" is "FCCU", "FCU", "FLARE", "PROHTR", "FUEL", "FUELCO", "FUELEX", "SRP20+", or "SRP20-."**

Construction/Modification Date:
Select one of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the facility. Enter the code on the form.

Code	Description
07-	On or before May 14, 2007
07-08	After May 14, 2007, and on or before June 24, 2008
08+	After June 24, 2008

★ **Complete "DCU Construction/Modification Date" only if "Facility Type" is "DCUFLR", "DCUFUEL", "DCUFUELCO", "DCUFUELEX", or "DCUPH."**

DCU Construction/Modification Date:
Select one of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the delayed coking unit. Enter the code on the form.

Code	Description
07-	Before May 14, 2007 for such activities defined in §60.100a(b)(1)
07+	On or after May 14, 2007 for such activities defined in §60.100a(b)(1)
08-	Before December 22, 2008 for such activities defined in §60.100a(b)(2)
08+	On or after December 22, 2008 for such activities defined in §60.100a(b)(2)
12-	Before September 12, 2012 for such activities defined in §60.100a(b)(3)
12+	On or after September 12, 2012 for such activities defined in §60.100a(b)(3)

▼ **Do not continue if "Construction/Modification Date" is "07-."**

▼ **Do not continue if "Construction/Modification Date" is "07-08" and "Facility Type" is "FLARE."**

▼ **Do not continue if "DCU Construction/Modification Date" is "07-", "08-", or "12-."**

▼ **Do not continue if "Facility Type" is "DCUFUELEX" or "FUELEX."**

▼ **Continue with Table 2a only if "Facility Type" is "FCCU" or "FCU."**

★ **Go to Table 2b if "Facility Type" is "SRP20+" or "SRP20-."**

★ **Go to Table 2c if "Facility Type" is "DCUFUEL", "DCUFUELCO", "DCUPH", "FUEL", "FUELCO", or "PROHTR".**

★ **Go to Table 2e if "Facility Type" is "DCUFLR" or "FLARE."**

★ **Complete "Newly Constructed" only if "Facility Type" is "FCCU."**

Newly Constructed:
Enter "YES" if the FCCU is newly constructed. Otherwise, enter "NO" if the FCCU is modified or reconstructed.

PM Emission Limit:
Select one of the following options that describes the PM emission limit. Enter the code on the form.

Code	Description
GRDSCF	Owner or operator is choosing PM limit in gr/dscf corrected to 0 percent excess air (a PM CEMS is used)
PMCOKE	Owner or operator is choosing PM limit in weight PM per weight coke burn-off

★ **Complete "PM Control" only if "PM Emission Limit" is "PMCOKE."**

PM Control:
Select one of the following options that describes the PM control device. Enter the code on the form.

Code	Description
ELPREC	electrostatic precipitator.
WTSCRB	wet scrubber
FABRIC	baghouse or similar fabric filter
CYC	cyclone
OTHER	a control device other than the four listed above

★ **Complete "CEMS Exempt" only if "Facility Type" is "FCCU" or "FCU."**

CEMS Exempt:
Enter "YES" if the CO emissions from the FCCU or FCU are demonstrated to remain less than 50 ppmv and an exemption from a CO CEMS is claimed. Otherwise, enter "NO".

★ **Complete "Post Combustion" only if "CEMS Exempt" is "YES."**

Post Combustion:
Enter "YES" if the unit has a post-combustion control device for CO. Otherwise, enter "NO."

Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only for fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including flares and process heaters), and sulfur recovery plants located at petroleum refineries. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery.**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete this table only if "Facility Type" is "SRP20+" or "SRP20-."**

SRP SO2 Control:
Select one of the following options that describes SO_2 emission control for the sulfur recovery plant. Enter the code on the form.

Code	Description
OXY	plant utilizes an oxygen enrichment system.
INC+	plant utilizes an oxidation control or a reduction control system followed by incineration
INC-	plant utilizes a reduction control system not followed by incineration

SRP Claus Unit:
Select one of the following options that describes the oxygen enrichment system at the sulfur recovery plant. Enter the code on the form.

Code	Description
CLAUS	a regular Claus sulfur recovery plant
OTHER	Claus sulfur recovery plant that only uses ambient air in the Claus burner, elect not to monitor O_2 concentration of the air/oxygen mixture used in the Claus burner, or is a non-Claus sulfur recovery plant

★ **Complete "Reduced Sulfur Compounds Monitor Alt" only if "SRP SO_2 Control" is "INC-."**

Reduced Sulfur Compounds Monitor Alt:
Enter "YES" if the owner or operator of the sulfur recovery plant uses an air or O_2 dilution and oxidation system to convert any reduced sulfur to SO_2 in place of the requirements in §60.106a(a)(2). Otherwise, enter "NO."

Flow Rate Weighted Average:
Enter "YES" if the owner or operator of the sulfur recovery plant is complying with the emission limits as a flow rate weighted average for a group of release points. Otherwise, enter "NO."

★ **Complete "O_2 Monitoring Alt" only if "SRP Claus Unit" is "CLAUS."**

O_2 Monitoring Alt:
Enter "YES" if the owner or operator of the sulfur recovery plant is using a CPMS to measure and record the volumetric gas flow rate of ambient air supplied to the Claus burner in place of the requirements in §60.106a(a)(5). Otherwise, enter "NO."

Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is "DCUFUEL", "DCUFUELCO", "DCUPH", "FUEL", "FUELCO", or "PROHTR."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "AMEL" only if "Facility Type" is "DCUFUEL", "DCUFUELCO", or "DCUPH."**

AMEL:
Enter "YES" if using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja. Otherwise, enter "NO."

★ **Complete "AMEL ID No." only if "Alternate Means of Emission Limitation" is "YES."**

AMEL ID No.:
If an AMEL has been approved, enter the corresponding AMEL unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ **Continue only if "Alternative Means of Emission Limitation" is "NO."**

★ **Complete "Sulfur Emission Limit" only if "Facility Type" is "DCUFUEL", "DCUPH", "FUEL", or "PROHTR."**

Sulfur Emission Limit:
Select one of the following options that describes the Sulfur emission limit. Enter the code on the form.

Code	Description
SO2	Owner or operator is choosing Sulfur Emission Limit in terms of ppmv SO_2 emitted
H2S	Owner or operator is choosing Sulfur Emission Limit in terms of ppmv H_2S in fuel gas

§60.107a(b) Exemption:
Enter "YES" if the fuel gas combustion device is eligible for the exemption on §60.107a(b) (i.e., the fuel gas stream can be demonstrated to be inherently low-sulfur). Otherwise, enter "NO."

★ **Complete "Common Source of Fuel Gas" only if "Facility Type" is "DCUFUELCO" or "FUELCO"; or if "Facility Type" is "DCUFUEL", "DCUPH", "FUEL", or "PROHTR" and "Sulfur Emission Limit" is "H2S."**

Common Source of Fuel Gas:
Enter "YES" if the fuel gas combustion device uses a common source of gas as described in §60.107a(a)(2)(iv). Otherwise, enter "NO."

▼ **Do not continue if "Facility Type" is "DCUFUEL", "DCUFUELCO", "FUEL" or "FUELCO."**

Table 2d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is "DCUPH" or "PROHTR."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Alternative Standard:
Enter "YES" if the process heater meets the criteria and has requested approval from the Administrator for a NO_X emissions limit as described in §60.102a(i). Otherwise, enter "NO."

▼ **Continue only if "Alternative Standard" is "NO."**

Heater Capacity:
Select one of the following options that describes process heater capacity. Enter the code on the form.

Code	Description
40-	the process heater is rated equal to or less than 40 MMBtu/hr
40-100	the process heater is rated greater than 40 MMBtu/hr but less than 100MMBtu/hr
100+	the process heater is rated equal to or greater than 100 MMBtu/hr

▼ **Do not continue if "Heater Capacity" is "40-."**

Heater Type:
Select one of the following options that describes process heater type. Enter the code on the form.

Code	Description
NDPH	the unit is a natural draft process heater
FDPH	the unit is a forced draft process heater
CONDPH	the unit is a co-fired natural draft process heater
COFDPH	the unit is a co-fired forced draft process heater

NOx Emission Limit:
Select one of the following options that describes the NOx emissions limit. Enter the code on the form.

For "Heater Type" designation of "NDPH" and "FDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
HVB	the owner or operator is choosing the NOx per heating value basis emission limit

For "Heater Type" designation of "CONDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
EQ3	the owner or operator is choosing the NOx emission limit based on Equation 3 in §60.102a(g)(2)(iii)(B)

For "Heater Type" designation of "COFDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
EQ4	the owner or operator is choosing the NOx emission limit based on Equation 4 in §60.102a(g)(2)(iv)(B)

★ **Complete "Low-NOx" only if "Heater Capacity" is "40-100."**

Low-NOx:
Select one of the following options that describes if the process heater has low-NOx or ultra-low-NOx burners. Enter the code on the form.

For "NO_X Emission Limit" designation of "PPMV":

Code	Description
LOWC	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the monitoring requirements in paragraphs §60.107a(c)(1) through (5)
ALTLOWC	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the alternative to the monitoring requirements in paragraphs §60.107a(c)(1) through (5)

For "NOx Emission Limit" designation of "HVB", "EQ3", and "EQ4:

Code	Description
LOWD	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the monitoring requirements in paragraphs §60.107a(d)(1) through (7)
ALTLOWD	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the alternative to the monitoring requirements in paragraphs §60.107a(d)(1) through (7)

★ **Complete "O_2 Operating Curve" only if "Low-NOx" is "ALTLOWC" or "ALTLOWD."**

O_2 Operating Curve:
Enter "YES" if an O_2 operating curve is used rather than a single O_2 operating limit. Otherwise, enter "NO."

★ **Complete "Gas Composition Analyzer" only if "Heater Capacity" is "100+" and "NOx Emission Limit" is "HVB"; or if "Heater Capacity" is "40-100" and "NOx Emission Limit" is "HVB" and "Low-NOx" is "ALTLOWD."**

Gas Composition Analyzer:
Enter "YES" if an O_2 operating curve is used rather than a single O_2 operating limit. Otherwise, enter "NO."

Table 2e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is ""DCUFLR" or "FLARE."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

AMEL:
Enter "YES" if using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja. Otherwise, enter "NO."

★ **Complete "AMEL ID No." only if "Alternate Means of Emission Limitation" is "YES."**

AMEL ID No.:
If an AMEL has been approved, enter the corresponding AMEL unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ **Continue only if "Alternative Means of Emission Limitation" is "NO."**

Alternative Monitoring:
Enter "YES" if the flare meets the requirements and complies with the alternative monitoring mentioned in §60.107a(g). Otherwise, enter "NO."

★ **Complete "§60.107a(e)(4) Exemption" only if "Alt Mon" is "NO."**

§60.107a(e)(4) Exemption:
Enter "YES" if the flare is eligible for the exemption in §60.107a(e)(4). Otherwise, enter "NO."

§60.107a(a)(3) Exemption:
Enter "YES" if the flare is eligible for the exemption on §60.107a(a)(3) (i.e., the fuel gas stream can be demonstrated to be inherently low-sulfur). Otherwise, enter "NO."

★ **Do not complete "Common Source of Fuel Gas" if "60.107a(a)(3) Exemption" is "YES."**

Common Source of Fuel Gas:
Enter "YES" if the flare uses a common source of gas as described in §60.107a(a)(2)(iv). Otherwise, enter "NO."

Modified Flare:
Enter "YES" if the flare is considered as a modified flare. A modification to a flare commences when a project that includes any of the activities in paragraphs §60.100a(c)(1) or (2) is commenced. Otherwise, enter "NO."

Cascaded Flare System:
Enter "YES" if the flare is used as a part of a cascaded flare system. Otherwise, enter "NO."

Table 3a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units

★ **Complete this table for catalytic cracking units (CCUs) that:**

- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meet the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic cracking unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.: Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CCU PM/Ni Emission Limitation: Select one of the following options that describes the HAP PM or Ni emission limit for the catalytic cracking unit. Enter the code on the form.

Code	Description
TABLE1.1	CCU subject to the NSPS for PM in 40 CFR § 60.102 and not electing § 60.100(e) complying with Table 1.1 to Subpart UUU
TABLE1.2A	CCU subject to the NSPS for PM in 40 CFR § 60.102a(b)(1)(i) or 40 CFR §60.102 and electing § 60.100(e) and complying with the 1.0 g/kg (1.0 lb PM/1,000 lb) of coke burn-off in Table 1.2 to Subpart UUU
TABLE1.2B	CCU subject to the NSPS for PM in 40 CFR § 60.102a(b)(1)(i) or 40 CFR § 60.102 and electing § 60.100(e) using a PM CEMS and complying with the 0.040 grain per dry standard cubic feet (gr/dscf) corrected to 0 percent excess air standard in Table 1.2 to Subpart UUU
TABLE1.3A	CCU subject to NSPS for PM in 40 CFR § 60.102a(b)(1)(ii) complying with the 0.5g/kg (0.5 lb/1000 lb) coke burn-off in Table 1.3 to Subpart UUU
TABLE1.3B	CCU subject to NSPS for PM in 40 CFR § 60.102a(b)(1)(ii) using a PM CEMS complying with the 0.020 gr/dcscf corrected to 0 percent excess air standard in Table 1.3 to Subpart UUU
OPT1A	Option 1a: Elect NSPS subpart J requirements for PM per coke burn limit and 30% opacity, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.4 to Subpart UUU
OPT1B	Option 1b: Elect NSPS subpart Ja requirements for PM per coke burn-off limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.5 to Subpart UUU
OPT1C	Option 1c: Elect NSPS subpart Ja requirements for PM concentration limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.6 to Subpart UUU
OPT2	Option 2: PM per coke burn-off limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.7 to Subpart UUU
OPT3	Option 3: Nickel (Ni) lb/hr limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.8 to Subpart UUU
OPT4	Option 4: Nickel (Ni) per coke burn-off limit, not subject to the NSPS for PM in 40 CFR§ 60.102 or§ 60.102a(b)(1) complying with Table 1.9 to Subpart UUU

CCU PM/Ni Control Device:
Select the control device used for PM or Ni emissions control. Enter the code on the form

Code	Description
CYCLONE	Cyclone
FABFLT	Fabric Filter
WETSCR1	Wet scrubber
WETSCR2	Wet scrubber of the non-venturi jet-ejector design
ESP	Electrostatic Precipitator

CCU PM/Ni Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU PM Control Device Alt ID" only if "CCU PM Control Device" is "OTHER."**

CCU PM/Ni Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CCU PM/Ni Monitoring Method:
Select the monitoring method used to demonstrate compliance with the PM or Ni emission limit. Enter the code on the form.

Code	Description
ALT	Monitoring approved alternative parameters under § 63.1573(e)
ALTCOM	Alternative to COMS approved under § 63.1573(f)
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System

★ **Complete "CCU PM/Ni Alt Monitoring ID" only if "CCU PM/Ni Monitoring Method" is "ALT," or "ALTCOM."**

CCU PM/Ni Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

Multiple CCUs Served by a Single Wet Scrubber:
Enter "Yes" if multiple CCUs are served by a single wet scrubber complying with § 63.1575(j). Otherwise, enter "NO."

Table 3b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units

★ **Complete this table for catalytic cracking units (CCUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic cracking unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CCU CO Emission Limitation:
Select one of the following options that describes the CO emission limit for the CCU. Enter the code on the form.

Code	Description
TABLE8.1	CCU subject to the NSPS requirements for CO in 40 CFR § 60.103 or § 60.102a(b)(4) complying with Table 8.1 to Subpart UUU
TABLE8.2	CCU not subject to the NSPS requirements for CO in 40 CFR § 60.103 or § 60.102a(b)(4) complying with Table 8.2 to Subpart UUU

★ **Complete "CCU CO Control Device" and "CCU CO Control Device ID. No." only if you are using a CO control device, and "CCU CO Emission Limitation" is "TABLE8.2."**

CCU CO Control Device:
Select the control device used for CO emissions control. Enter the code on the form.

Code	Description
FLARE	Flare meeting the requirements of § 63.670
THERMINC	Thermal Incinerator
PRHTR	Process Heater with a design heat input capacity less than 44 MW or in which all vent streams are not introduced into the flame zone
BOILER	Boiler with a design heat input capacity less than 44MW or in which all vent streams are not introduced into the flame zone
OTHER	Other control device approved under § 63.1573(e)

CCU CO Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU CO Control Device Alt ID" only if "CCU CO Control Device" is "OTHER."**

CCU CO Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CCU CO Monitoring Method:
Select the monitoring method used to demonstrate compliance with the CO emission limit. Enter the code on the form.

Code	Description
CEMS	Continuous Emissions Monitoring System for measuring CO concentration
CEMS50-	Using CEMS to demonstrate CO emission average under 50 ppm (dry basis)
CPMS	Continuous Parameter Monitoring System for measuring combustion zone temperature

CCU Bypass Line:
Select one of the following options that describes if a bypass line is used to divert an affected vent stream away from a control device.

Code	Description
NONE	No bypass line serving the catalytic cracking unit
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "CCU Bypass Line Alt Monitoring ID" only if "CCU Bypass Line" is "BYALT."**

CCU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for catalytic reforming units (CRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic reforming unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CRU TOC Emission Limitation:
Select one of the following options that describes the total organic compounds (TOC) emission limitation for the catalytic reforming unit. Enter the code on the form.

Code	Description
TABLE15.1	Vent emissions of TOC to a flare that meets the requirements of §63.670 (Option 1) complying with Table 15.1 to Subpart UUU
TABLE15.2	Reduce uncontrolled emissions of TOC or nonmethane TOC by 98% by weight or to a concentration of 20 ppmv (Option 2) complying with Table 15.2 to Subpart UUU

★ **Do not complete "CRU TOC Compliance Method" if "CRU TOC Emission Limitation" is "Table15.1"**

CRU TOC Compliance Method:
Select the compliance option for reducing TOC emissions.

Code	Description
PRCENT	Complying with the TOC percent reduction limit
CONCEN	Complying with the TOC concentration limit

CRU TOC Control Device:
Select one of the following options that describes the control device used to control TOC emissions.

Code	Description
THERMINC	Thermal Incinerator
PRHTR	Process Heater with a design heat input capacity less than 44 MW or in which all vent streams not introduced into the flame zone
BOILER44-	Boiler with a design heat input capacity less than 44MW or in which all vent streams not introduced into the flame zone
BOILER44+	Boiler with a design heat input capacity less equal to or greater than 44MW or which all vent streams are introduced into the flame zone
NONE	No control device

CRU TOC Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU TOC Control Device Alt ID" only if "CCU TOC Control Device" is "OTHER."**

CCU TOC Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CRU Engineering Assessment:
Enter "YES" if choosing to perform an engineering assessment for CRUs according to the requirements of § 63.1571(c). Otherwise, enter "NO."

CRU Alternate Monitoring:
Enter "YES" if choosing to monitor alternate parameters in accordance with § 63.1573(e). Otherwise, enter "NO."

★ **Complete "CRU Alt Monitoring ID" only if "CRU Alternate Monitoring" is "ADCS" or "ALT."**

CRU Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for catalytic reforming units (CRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic reforming unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CRU HCL Emission Limitation:
Select one of the following options that Which the CRU HCl emission limitation.

Code	Description
TABLE22.1	Existing semi-regenerative CRU reducing uncontrolled emissions of HCl 92% by weight or to a concentration of 30 ppmv complying with Table 22.1 to Subpart UUU
TABLE22.2	Existing cyclic or continuous CRU reducing uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmv complying with Table 22.2 to Subpart UUU
TABLE22.3	New semi-regenerative, cyclic, or continuous CRU reducing uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmv complying with Table 22.3 to Subpart UUU

CRU HCl Compliance Method:
Select the compliance option for reducing TOC emissions.

Code	Description
PRCENT	Complying with the HCl percent reduction limit
CONCEN	Complying with the HCl concentration limit

CRU HCL Control Device:
Select one of the following options that describes the control device used to control HCl emissions.

Code	Description
WETSCRUB	Wet Scrubber
INTSCR1	Internal Scrubbing System meeting the HCl outlet concentration limit
INTSCR2	Internal Scrubbing System meeting the HCl reduction standard
FBGSAS	Fixed-bed gas-solid adsorption system
MBGSAS	Moving-bed gas-solid adsorption system
NONE	No control device

CRU HCL Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank."

CCU HCL Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

★ **Complete "Wet Scrubber Alt Monitoring" only if "CRU HCl Control Device" is "WETSCRUB" or "INTSCR2."**

CRU HCl Alt Monitoring:
Select one of the following alternative monitoring methods
.

Code	Description
ALT	Monitoring alternative parameters in accordance with § 63.1573(e)
PH	Using the alternative pH procedure in § 63.1573(b)(1)
ALK	Using the alternative alkalinity method in § 63.1573(b)(2)
NONE	No alternate monitoring

CRU Bypass Line:
Select one of the following options that describes the work practice standard for the bypass line. Enter the code on the form.

Code	Description
NONE	No bypass line serving the SRU
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "CRU Bypass Line Alt Monitoring ID" only if "CRU Bypass Line" is "BYALT."**

CRU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for sulfur recovery units (SRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions meet the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the sulfur recovery unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

SRU Emission Limitation:
Select one of the following options that describes the emission limitation for the SRU. Enter the code on the form.

Code	Description
TABLE29.1.A1	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration complying with 250 ppmv SO_2 emission limit.
TABLE29.1A2	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration complying with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i).
TABLE29.1B1	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration complying with 300 ppmv of reduced sulfur compounds calculated as ppmv SO_2 emission limit.
TABLE29.1B2	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration complying with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i).
TABLE29.2A1	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration electing to comply with 250 ppmv SO_2 emission limit (Option 1).
TABLE29.2A2	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration electing to comply with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i) (Option 1).
TABLE29.2B1	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration electing to comply with 300 ppmv of reduced sulfur compounds calculated as ppmv SO_2 emission limit (Option 1).
TABLE29.2B2	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration electing to comply with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i) (Option 1).
TABLE29.3	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) electing to comply with TRS emission limit of 300 ppmv (Option 2).

SRU Alternate Monitoring:
Enter "YES" if choosing to monitor alternate parameters in accordance with § 63.1573(e). Otherwise, enter "NO."

★ **Complete "SRU Monitoring Method" only if "SRU Emission Limitation" is "TABLE29.1B1," "TABLE29.1B2," "TABLE29.2B1," "TABLE29.B2," or "TABLE29.3" AND "SRU Alternate Monitoring" is "NO."**

SRU Monitoring Method:
Select the monitoring method used to demonstrate compliance with the SRU emission limitation. Enter the code on the form.

Code	Description
SULOXY	CEMS for monitoring reduced sulfur and O2 concentrations
DILOXY	Instrument having an air or SO_2 dilution and oxidation system to convert reduced sulfur to SO_2 for continuously monitoring and recording the concentration at zero percent excess air of the resultant SO_2
TRSCEMS	CEMS for monitoring TRS concentrations (only use if SRU Emission Limitation is SRU5)
CPMS	CPMS for measuring and recording the combustion zone temperature of each thermal incinerator (only use if SRU Emission Limitation is SRU5)

SRU Startup/Shutdown Emissions:
Select one of the following options that describes the control of startup and shutdown purge gases. Enter the code on the form.

Code	Description
FLARE	Startup/shutdown emissions sent to flare meeting §63.670
TOX	Startup/shutdown emissions sent to thermal oxidizer
TINC	Startup/shutdown emissions sent to thermal incinerator
NONE	Startup/shutdown emissions not sent to control device

SRU Bypass Line:
Select one of the following options that describes the work practice standard for the bypass line. Enter the code on the form.

Code	Description
NONE	No bypass line serving the SRU
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "SRU Alt Monitoring ID" only if "SRU Bypass Line" is "BYALT."**

SRU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete this table for fluid catalytic cracking units (FCCU) (including CO boiler, CO furnace, and catalyst regenerator vent) located at a major source of NO_x in the Houston/Galveston/Brazoria Eight-Hour ozone nonattainment areas. FCCUs located in the Beaumont/Port Arthur Eight-Hour ozone nonattainment area are exempt from Subchapter B per § 117.103(b)(4), except for CO boilers designated as opt-in units which are addressed in Form OP-UA6. There are no Subchapter B requirements relating to FCCUs in the Dallas/Fort Worth Eight-Hour ozone nonattainment area.**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

NOx Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable emission specifications. Select one of the following options. Enter the code on the form.

Code	Description
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(2) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]
ACF	Boiler is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17)

★ **Complete "310A2-OPTION" only if "NOx Emission Limitation" is "310D."**

310A2-Option:
Select one of the following § 117.310(a)(2) NO_x emission options. Enter the code on the form.

Code	Description
310A2-A	40 ppmv NO_x at 0.0% O2, dry basis per § 117.310(a)(2)(A).
310A2-B	90% NO_x reduction of the exhaust concentration used to calculate the June – August 1997 daily NOx emissions per § 117.310(a)(2)(B).
310A2-C	install and certify a NO_x CEMS or PEMS per § 117.310(a)(2)(C).

NOx Monitoring System:
Select one of the following monitoring system options. Enter the code on the form.

Code	Description
75ARC	Acid rain-affected unit subject to continuous emissions monitoring requirements of 40 CFR Part 75
75ARP	Acid rain-affected unit subject to predictive emissions monitoring requirements of 40 CFR Part 75
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system

NOx Emission Limit Average:
Select one of the following options for the NO_x emission limit. Enter the code on the form.

Code	Description
30DAY	Emission limit in pounds/MMBtu on a rolling 30-day average
BLK1-LB	Emission limit in pounds/hour on a block one-hour average
PPMV	Emission limit in parts per million by volume (ppmv)

Supplemental Fuel:
Enter "YES" if the fluid catalytic cracking unit boiler is using supplemental fuel and thus requires a totalizing fuel flow meter. Otherwise, enter "NO."

Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete this table for fluid catalytic cracking units (FCCU) (including CO boiler, CO furnace, and catalyst regenerator vent) located at a major source of NO_x in the Houston/Galveston/Brazoria Eight-Hour ozone nonattainment areas. FCCUs located in the Beaumont/Port Arthur Eight-Hour ozone nonattainment area are exempt from Subchapter B per § 117.103(b)(4), except for CO boilers designated as opt-in units which are addressed in Form OP-UA6. There are no Subchapter B requirements relating to FCCUs in the Dallas/Fort Worth Eight-Hour ozone nonattainment area.**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Do not complete "Fuel Flow Monitoring" if "Supplemental Fuel" is "No."**

Fuel Flow Monitoring:
Select one of the following options to indicate how fuel flow is monitored. Enter the code on the form.

Code	Description
X40A	Fuel flow is with a totalizing fuel flow meter per 30 TAC § 117.340(a)
X40A2-A	Unit operates with a NO_x and diluent CEMS and monitors stack exhaust flow per 30 TAC § 117.340(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NO_x and diluent CEMS and uses a single totalizing fuel flow meter per 30 TAC § 117.340(a)(2)(B)

CO Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable CO emission specifications of 30 TAC Chapter 117, Subchapter B. Select one of the following options. Enter the code on the form.

Code	Description
310C	Title 30 TAC § 117.310(c)(1) 400 ppmv option
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

CO Monitoring System:
Select one of the following options to indicate how the unit is monitored for CO exhaust emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1)
PEMS	Predictive emissions monitoring system complying with 30 TAC § 117.8100(b)
OTHER	Other than CEMS or PEMS

Ammonia NOx Reduction:
Enter "YES" if urea or ammonia is injected into the exhaust stream for NO_x control. Otherwise, enter "NO."

▼ **Continue only if "Ammonia NOx Reduction" is "Yes."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH3 emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

NH3 Monitoring:
Select one of the following options to indicate how the unit is monitored for NH_3 emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
3-36-4	60J3364	FUELOW	73-07					
9-36-4	60J9364	FUELOW	73-07					
11-36-1	60J11361	FUELOW	73-07					
11-36-5	60J11365	FUELOW	73-07					
20-36-1	60J20361	FUELOW	73-07					
25.1-36-1	60J251361	FUELHI	73-07					
25.2-CS	60J252CS	FUELHI	73-07					
29.1-36-001	60J2913601	FUELHI	73-07					
29.2-36-CS	60J29236CS	FUELHI	73-07					
26-CS	60J26CS	FUELHI	73-07					
14-36-3	60J14363	FUELOW	73-07					

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
14-36-4	60J14364	FUELOW	73-07					
30-36-1	60J30361	FUELOW	73-07					
35-36-1	60J35361	FUELHI	73-07					
38-36-251	60J3836251	FUELHI	73-07					
38-36-252	60J3836252	FUELHI	73-07					

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 2)
Federal Operating Permit Program

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Low Sulfur	SO2 Exemption ID	Monitoring Device
3-36-4	60J3364	30PPMV		
9-36-4	60J9364	30PPMV		
11-36-1	60J11361	30PPMV		
11-36-5	60J11365	30PPMV		
20-36-1	60J20361			YES
25.1-36-1	60J251361			YES
25.2-CS	60J252CS			YES
29.1-36-001	60J2913601			YES
29.2-36-CS	60J29236CS			YES
26-CS	60J26CS			YES
14-36-3	60J14363	30PPMV		
30-36-1	60J30361	30PPMV		

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 2)
Federal Operating Permit Program

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Low Sulfur	SO2 Exemption ID	Monitoring Device
30-36-1	60J30361	30PPMV		
35-36-1	60J35361			YES
38-36-251	60J3836251			YES
38-36-252	60J3836252			YES

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 3)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced after May 14, 2007

Date:	**03/5/2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	DCU Construction/ Modification Date	Newly Constructed	PM Emission Limit	PM Control	CEMs Exempt	Post Combustion
45-36-1	Ja-45361	PROHTR	08+						

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 4)
Federal Operating Permit Program

Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**03-05-2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	SRP SO2 Control	SRP Claus Unit	Reduced Sulfur Compounds Monitor Alt	Flow Rate Weighted Average	O_2 Monitoring Alt
45-36-1	Ja-45361					

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 5)
Federal Operating Permit Program

Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**09-05-2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	AMEL	AMEL ID No.	Sulfur Emission Limit	§60.107a(b) Exemption	Common Source of Fuel Gas
45-36-1	Ja-45361			H2S	NO	NO

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 6)
Federal Operating Permit Program

Table 2d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**08-22-2022**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Alternative Standard	Heater Capacity	Heater Type	NOx Emission Limit	Low NOx	O_2 Operating Curve	Gas Composition Analyzer
45-36-1	Ja-45361	NO	40-100	NDPH	HVB	ALTLOWC	NO	NO

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 7)
Federal Operating Permit Program

Table 2e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	AMEL	AMEL ID No.	Alternative Monitoring	§60.107a(e)(4) Exemption	§60.107a(a)(3) Exemption	Common Source of Fuel Gas	Modified Flare	Cascaded Flare System

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 8)
Federal Operating Permit Program

Table 3a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CCU PM/Ni Emission Limitation	CCU PM/Ni Control Device	CCU PM/Ni Control Device ID No.	CCU PM/Ni Control Device Alt ID	CCU PM/Ni Monitoring Method	CCU PM/Ni Alt Monitoring ID	Multiple CCUs Served by a Single Wet Scrubber

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 9)
Federal Operating Permit Program

Table 3b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CCU CO Emission Limitation	CCU CO Control Device	CCU CO Control Device ID No.	CCU CO Control Device Alt ID	CCU CO Monitoring Method	CCU Bypass Line	CCU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 10)
Federal Operating Permit Program

Table 3c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries - Catalytic Reforming Units

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CRU TOC Emission Limitation	CRU TOC Compliance Method	CRU TOC Control Device	CRU TOC Control Device ID No.	CRU TOC Control Device Alt ID	CRU Engineering Assessment	CRU Alternate Monitoring	CRU Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 11)
Federal Operating Permit Program

Table 3d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

TDate:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CRU HCl Emission Limitation	CRU HCl Compliance Method	CRU HCl Control Device	CRU HCl Control Device ID No.	CRU HCl Control Device Alt ID.	CRU HCl Alt Monitoring	CRU Bypass Line	CRU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 12)
Federal Operating Permit Program

Table 3e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	SRU Emission Limitation	SRU Alternate Monitoring	SRU Monitoring Method	SRU Startup/Shutdown Emissions	SRU Bypass Line	SRU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 13)
Federal Operating Permit Program

Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	NOx Emission Limitation	310A2-Option	NOx Monitoring System	NOx Emission Limit Average	Supplemental Fuel

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 14)
Federal Operating Permit Program

Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	Ammonia NOx Reduction	NH3 Emission Limitation	NH3 Monitoring

From: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Sent: Tuesday, March 5, 2024 8:04 AM
To: Alfredo Mendoza
Cc: Mareno, Katie
Subject: RE: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626
Attachments: [EXTERNAL]5920A - Approval - Phillips 66 Company - 364113; OPUA50 form Tbl 1a Sbprt Jv1.docx; Response to NOD1.docx

Alfredo,

I wanted to run this draft response and the updates to OP-UA50 Tables as requested before finalizing same. I will call to touch base after 2:00 PM.

From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.

- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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From: Alfredo Mendoza <alfredo.mendoza@tceq.texas.gov>
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K <Vinod.K.Jaini@p66.com>
Cc: Mareno, Katie <Katie.Mareno@p66.com>; Bonura, Steve C <Steve.C.Bonura@p66.com>
Subject: [EXTERNAL]Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626

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Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
  PSX Reply: These heaters were constructed anywhere pre 1973. Consistent with the Consent Decree obligations, Phillips 66 is accepting NSPS Subpart J. I updated OP-UA50 as requested.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
  PSX Reply: Table 1a has been updated as requested.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
  PSX Reply: Table 1a has been updated as requested.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
  PSX Reply: Table 1b was updated as requested.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

PSX Reply: Table 2a, Table 2c and Table 2d were updated. I appreciate your patience.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

PSX Reply: I am attaching the December 8, 2023 air permit conditions. The MAERT was not revised. The air permit conditions were updated as part of NSR modifications driven by consent decree.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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Texas Commission on Environmental Quality

Form OP-UA50
Fluid Catalytic Cracking Unit Catalyst Regenerator/ Fuel Gas Combustion Device/Claus Sulfur Recovery Plant/ Coking Unit Attributes

General:

This form is used to provide a description and data pertaining to the following units with potentially applicable requirements associated with a particular regulated entity number and application:

- Fluid catalytic cracking unit (FCCU) catalyst regenerators located at a petroleum refinery;
- Catalytic Reforming Unit (CRU) located at a petroleum refinery;
- Fuel gas combustion devices located at a petroleum refinery;
- Claus sulfur recovery plants located at a petroleum refinery;
- Claus sulfur recovery plants located outside a petroleum refinery boundaries but processing gases produced within a petroleum refinery, or; Coking units.

Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a unit, then it should be left blank and need not be submitted with the application. If the codes entered by the applicant show negative applicability to the rule or sections of the rule represented on the table, then the applicant need not complete the remainder of the table(s) that corresponds to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the "Specific" section of the instruction text. The following is included in this form:

Tables 1a - 1b:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries**
Tables 2a – 2e:	**Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007**
Tables 3a - 3e:	**Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries**
Tables 4a - 4b:	**Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Area**

The application area name from Form OP-1 entitled "Site Information Summary" must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (MM-DD-YYYY). **Leave the permit number blank for the initial form submittal.** If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is *not* required. **Anytime a response is *not* required based on the qualification criteria, leave the space on the form *blank*.**

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate "N/A" for "Not Applicable") if the attribute is not needed for the applicable requirement determinations of regulation for a unit.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ Executive Director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) **requires** that a Core Data Form be submitted on **all** incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and no core data information has changed. The Central Registry is a common record area of the TCEQ which maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core Data Form must be completed and submitted with the application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ website at www.tceq.texas.gov/nav/permitting.

Specific:

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart J: Standards of Performance for Petroleum Refineries

★ **Complete this table only for FCCU catalyst regenerators located at a petroleum refinery, fuel gas combustion devices located at a petroleum refinery, and Claus sulfur recovery plants processing gases produced within a petroleum refinery. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery.**

★ **Do not complete Tables 1a-1b if you are choosing to comply with the applicable provisions of Subpart Ja to satisfy the requirements of this subpart as stated in §60.100(e). Skip to Tables 2a-2b and complete.**

★ **Do not complete Tables 1a-1b if flares only burn process upset gases and fuel gases due to relief valve leakage or other emergency malfunctions.**

Unit ID No.:
Enter the identification number (ID No.) for the FCCU catalyst regenerator, fuel gas combustion device, or Claus sulfur recovery plant (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Facility Type:
Select **one** of the following options for each facility type. Enter the **code** on the form.

Code	Description
FCCU	FCCU catalyst regenerator
FLARELOW	Fuel gas combustion device, that is also a flare, that meets the requirements in § 60.105(a)(4)(iv) and §60.105(b) [inherently low in sulfur content]
FLAREHI	Fuel gas combustion device, that is also a flare, that does NOT meet requirements in § 60.105(a)(4)(iv) and 60.105(b)
FUELOW	Fuel gas combustion device, other than a flare, that meets the requirements in § 60.105(a)(4)(iv) and 60.105(b) [inherently low in sulfur content]
FUELHI	Fuel gas combustion device, other than a flare, that does NOT meet the requirements in § 60.105(a)(4)(iv) and 60.105(b)
SR20-	Claus sulfur recovery plant with a design capacity for sulfur feed less than or equal to 20 long tons per day (LTPD)
SR20+OCS	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with oxidation control systems
SR20RCS+I	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems followed by incineration
SRRCS+CON	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems **not** followed by incineration and using an instrument to continuously monitor and record the concentration of reduced sulfur and O_2 emissions
SRRCS-CON	Claus sulfur recovery plant with a design capacity for sulfur feed greater than 20 LTPD with reduction control systems **not** followed by incineration and is **not** using an instrument to continuously monitor and record the concentration of reduced sulfur and O_2 emissions

▼ **Do not continue if "Facility Type" is "SR20-."**

Construction/Modification Date:
Select **one** of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the facility. Enter the **code** on the form.

For "Facility Type" designation of "FCCU":

Code	Description
73-B	On or before June 11, 1973
73-84	After June 11, 1973, and on or before January 17, 1984
84-07	After January 17, 1984, and on or before May 14, 2007
07+	After May 14, 2007

For "Facility Type" designation of "FLAREHI" or "FLARELOW":

Code	Description
73-B	On or before June 11, 1973
73-08	After June 11, 1973, and on or before June 24, 2008
08+	After June 24, 2008

For "Facility Type" designation of "FUELHI" or "FUELOW":

Code	Description
73-B	On or before June 11, 1973
73-07	After June 11, 1973, and on or before May 14, 2007
07+	After May 14, 2007

For "Facility Type" designation of "SR20+OCS", "SR20RCS+I," "SRRCS+CON", or "SRRCS-CON":

Code	Description
76-	On or before October 4, 1976
76-07	After October 4, 1976, and on or before May 14, 2007
07+	After May 14, 2007

▼ **Do not continue if "Construction/Modification Date" is "73-B," "76-," "07+," or "08+."**

★ **Go to Table 1b if "Facility Type" is "FLARELOW," "FLAREHI", "FUELLOW," or "FUELHI."**

▼ **Do not continue if "Facility Type" is "SR20+OCS", "SR20RCS+I," "SRRCS+CON", or "SRRCS-CON."**

Contact Material:

Enter "YES" if the FCCU catalyst regenerator has a contact material that reacts with petroleum derivatives to improve feedstock quality in which the contact material is regenerated by burning off coke and/or other deposits. Otherwise, enter "NO."

▼ **Do not continue if "Contact Material" is "YES" and "Construction/Modification Date" is "73-84."**

★ **Complete "Sulfur Content" only if "Construction/Modification Date" is "84- 07."**

Sulfur Content:
Select **one** of the following options to demonstrate which sulfur oxide compliance option the FCCU is utilizing. Enter the **code** on the form.

Code	Description
FEED	Measuring the total sulfur content in the FCCU fresh feed
CD	The FCCU uses an add-on control device to control SO_2 emissions
NOCD	The FCCU does not use an add-on control device to control SO_2 emissions

Discharged Gases:
Enter "YES" if gases discharged by the FCCU pass through an incinerator or waste heat boiler in which auxiliary or supplemental liquid or solid fossil fuel is burned. Otherwise, enter "NO".

CO Monitoring:
Enter "YES" if you have demonstrated to the Administrator that the average CO emissions are less than 50 ppm (dry basis). Otherwise, enter "NO."

★ **Complete "CO Exemption ID" only if "CO Monitoring" is "YES."**

CO Exemption ID:
Enter the CO Monitoring Exemption ID or date of the approval letter from the Administrator. Otherwise, leave this column blank. *(Submit the approval letter with your application).*

▼ **Do not continue if "Facility Type" is "FCCU".**

Table 1b: **Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart J: Standards of Performance for Petroleum Refineries**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU catalyst regenerator, fuel gas combustion device, or Claus sulfur recovery plant (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ Website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "Low Sulfur" only if "Facility Type" is "FUELOW" or "FLARELOW".**

Low Sulfur:
Select **one** of the following options that describes which fuel gas stream is inherently low in sulfur. Enter the **code** on the form.

Code	Description
PILOT	Fuel gas stream that is pilot gas for heaters and flares
30PPMV	Fuel gas stream that meets a commercial-grade product specification for the sulfur content of 30 ppmv or less
INTOL	Fuel gas stream that is intolerant to sulfur contamination
OTHER	Fuel gas stream that has been demonstrated to the Administrator according to § 60.105(a)(4)(iv)(D) and §60.105(b)

★ **Complete "SO2 Exemption ID" only if "Low Sulfur" is "OTHER".**

SO2 Exemption ID:
Enter the SO2 Monitoring Exemption ID or date of the approval letter from the Administrator. Otherwise, leave this column blank. *(Submit the approval letter with your application).*

★ **Complete "Monitoring Device" only if "Facility Type" is "FUELHI" or "FLAREHI".**

Monitoring Device:
Enter "YES" if an instrument is in place for continuously monitoring and recording the concentration by volume of SO_2 emissions into the atmosphere. Otherwise, enter "NO."

Table 2a: **Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007**

★ **Complete this table only for fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including flares and process heaters), and sulfur recovery plants located at petroleum refineries. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Facility Type:
Select one of the following options for each facility type. Enter the code on the form.

Code	Description
FCCU	fluid catalytic cracking unit
FCU	fluid coking unit
DCUFLR	delayed coking unit that vents exhaust vapor to a flare
DCUFUEL	delayed coking unit that vents exhaust vapor to a fuel gas combustion device, other than a flare or a process heater
DCUFUELCO	delayed coking unit that vents exhaust vapor to a CO boiler or furnace that is part of a FCCU/FCU affected facility
DCUFUELEX	delayed coking unit that vents exhaust vapor to a portable generator of fuel gas used for tank degreasing and/or cleaning
DCUPH	delayed coking unit that vents exhaust vapor to a process heater used as a fuel gas combustion device
FLARE	flare that is used for fuel gas combustion
PROHTR	process heater that is used for fuel gas combustion
FUEL	fuel gas combustion device, other than a flare or process heater
FUELCO	CO boiler or furnace that is part of a FCCU/FCU affected facility
FUELEX	portable generator of fuel gas used for tank degreasing and/or cleaning
SR20+	sulfur recovery plant greater than 20 long tons per day (LTPD
SR20-	sulfur recovery plant less than or equal to 20 LTPD

★ **Complete "Construction/Modification Date" only if "Facility Type" is "FCCU", "FCU", "FLARE", "PROHTR", "FUEL", "FUELCO", "FUELEX", "SRP20+", or "SRP20-."**

Construction/Modification Date:
Select one of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the facility. Enter the code on the form.

Code	Description
07-	On or before May 14, 2007
07-08	After May 14, 2007, and on or before June 24, 2008
08+	After June 24, 2008

★ **Complete "DCU Construction/Modification Date" only if "Facility Type" is "DCUFLR", "DCUFUEL", "DCUFUELCO", "DCUFUELEX", or "DCUPH."**

DCU Construction/Modification Date:
Select one of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification of the delayed coking unit. Enter the code on the form.

Code	Description
07-	Before May 14, 2007 for such activities defined in §60.100a(b)(1)
07+	On or after May 14, 2007 for such activities defined in §60.100a(b)(1)
08-	Before December 22, 2008 for such activities defined in §60.100a(b)(2)
08+	On or after December 22, 2008 for such activities defined in §60.100a(b)(2)
12-	Before September 12, 2012 for such activities defined in §60.100a(b)(3)
12+	On or after September 12, 2012 for such activities defined in §60.100a(b)(3)

▼ **Do not continue if "Construction/Modification Date" is "07-."**

▼ **Do not continue if "Construction/Modification Date" is "07-08" and "Facility Type" is "FLARE."**

▼ **Do not continue if "DCU Construction/Modification Date" is "07-", "08-", or "12-."**

▼ **Do not continue if "Facility Type" is "DCUFUELEX" or "FUELEX."**

▼ **Continue with Table 2a only if "Facility Type" is "FCCU" or "FCU."**

★ **Go to Table 2b if "Facility Type" is "SRP20+" or "SRP20-."**

★ **Go to Table 2c if "Facility Type" is "DCUFUEL", "DCUFUELCO", "DCUPH", "FUEL", "FUELCO", or "PROHTR".**

★ **Go to Table 2e if "Facility Type" is "DCUFLR" or "FLARE."**

★ **Complete "Newly Constructed" only if "Facility Type" is "FCCU."**

Newly Constructed:
Enter "YES" if the FCCU is newly constructed. Otherwise, enter "NO" if the FCCU is modified or reconstructed.

PM Emission Limit:
Select one of the following options that describes the PM emission limit. Enter the code on the form.

Code	Description
GRDSCF	Owner or operator is choosing PM limit in gr/dscf corrected to 0 percent excess air (a PM CEMS is used)
PMCOKE	Owner or operator is choosing PM limit in weight PM per weight coke burn-off

★ **Complete "PM Control" only if "PM Emission Limit" is "PMCOKE."**

PM Control:
Select one of the following options that describes the PM control device. Enter the code on the form.

Code	Description
ELPREC	electrostatic precipitator.
WTSCRB	wet scrubber
FABRIC	baghouse or similar fabric filter
CYC	cyclone
OTHER	a control device other than the four listed above

★ **Complete "CEMS Exempt" only if "Facility Type" is "FCCU" or "FCU."**

CEMS Exempt:
Enter "YES" if the CO emissions from the FCCU or FCU are demonstrated to remain less than 50 ppmv and an exemption from a CO CEMS is claimed. Otherwise, enter "NO".

★ **Complete "Post Combustion" only if "CEMS Exempt" is "YES."**

Post Combustion:
Enter "YES" if the unit has a post-combustion control device for CO. Otherwise, enter "NO."

Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only for fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including flares and process heaters), and sulfur recovery plants located at petroleum refineries. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery.**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete this table only if "Facility Type" is "SRP20+" or "SRP20-."**

SRP SO2 Control:
Select one of the following options that describes SO_2 emission control for the sulfur recovery plant. Enter the code on the form.

Code	Description
OXY	plant utilizes an oxygen enrichment system.
INC+	plant utilizes an oxidation control or a reduction control system followed by incineration
INC-	plant utilizes a reduction control system not followed by incineration

SRP Claus Unit:
Select one of the following options that describes the oxygen enrichment system at the sulfur recovery plant. Enter the code on the form.

Code	Description
CLAUS	a regular Claus sulfur recovery plant
OTHER	Claus sulfur recovery plant that only uses ambient air in the Claus burner, elect not to monitor O_2 concentration of the air/oxygen mixture used in the Claus burner, or is a non-Claus sulfur recovery plant

★ **Complete "Reduced Sulfur Compounds Monitor Alt" only if "SRP SO_2 Control" is "INC-."**

Reduced Sulfur Compounds Monitor Alt:
Enter "YES" if the owner or operator of the sulfur recovery plant uses an air or O_2 dilution and oxidation system to convert any reduced sulfur to SO_2 in place of the requirements in §60.106a(a)(2). Otherwise, enter "NO."

Flow Rate Weighted Average:
Enter "YES" if the owner or operator of the sulfur recovery plant is complying with the emission limits as a flow rate weighted average for a group of release points. Otherwise, enter "NO."

★ **Complete "O_2 Monitoring Alt" only if "SRP Claus Unit" is "CLAUS."**

O_2 Monitoring Alt:
Enter "YES" if the owner or operator of the sulfur recovery plant is using a CPMS to measure and record the volumetric gas flow rate of ambient air supplied to the Claus burner in place of the requirements in §60.106a(a)(5). Otherwise, enter "NO."

Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is "DCUFUEL", "DCUFUELCO", "DCUPH", "FUEL", "FUELCO", or "PROHTR."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete "AMEL" only if "Facility Type" is "DCUFUEL", "DCUFUELCO", or "DCUPH."**

AMEL:
Enter "YES" if using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja. Otherwise, enter "NO."

★ **Complete "AMEL ID No." only if "Alternate Means of Emission Limitation" is "YES."**

AMEL ID No.:
If an AMEL has been approved, enter the corresponding AMEL unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ **Continue only if "Alternative Means of Emission Limitation" is "NO."**

★ **Complete "Sulfur Emission Limit" only if "Facility Type" is "DCUFUEL", "DCUPH", "FUEL", or "PROHTR."**

Sulfur Emission Limit:
Select one of the following options that describes the Sulfur emission limit. Enter the code on the form.

Code	Description
SO2	Owner or operator is choosing Sulfur Emission Limit in terms of ppmv SO_2 emitted
H2S	Owner or operator is choosing Sulfur Emission Limit in terms of ppmv H_2S in fuel gas

§60.107a(b) Exemption:
Enter "YES" if the fuel gas combustion device is eligible for the exemption on §60.107a(b) (i.e., the fuel gas stream can be demonstrated to be inherently low-sulfur). Otherwise, enter "NO."

★ **Complete "Common Source of Fuel Gas" only if "Facility Type" is "DCUFUELCO" or "FUELCO"; or if "Facility Type" is "DCUFUEL", "DCUPH", "FUEL", or "PROHTR" and "Sulfur Emission Limit" is "H2S."**

Common Source of Fuel Gas:
Enter "YES" if the fuel gas combustion device uses a common source of gas as described in §60.107a(a)(2)(iv). Otherwise, enter "NO."

▼ **Do not continue if "Facility Type" is "DCUFUEL", "DCUFUELCO", "FUEL" or "FUELCO."**

Table 2d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is "DCUPH" or "PROHTR."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Alternative Standard:
Enter "YES" if the process heater meets the criteria and has requested approval from the Administrator for a NO_X emissions limit as described in §60.102a(i). Otherwise, enter "NO."

▼ **Continue only if "Alternative Standard" is "NO."**

Heater Capacity:
Select one of the following options that describes process heater capacity. Enter the code on the form.

Code	Description
40-	the process heater is rated equal to or less than 40 MMBtu/hr
40-100	the process heater is rated greater than 40 MMBtu/hr but less than 100MMBtu/hr
100+	the process heater is rated equal to or greater than 100 MMBtu/hr

▼ **Do not continue if "Heater Capacity" is "40-."**

Heater Type:
Select one of the following options that describes process heater type. Enter the code on the form.

Code	Description
NDPH	the unit is a natural draft process heater
FDPH	the unit is a forced draft process heater
CONDPH	the unit is a co-fired natural draft process heater
COFDPH	the unit is a co-fired forced draft process heater

NOx Emission Limit:
Select one of the following options that describes the NOx emissions limit. Enter the code on the form.

For "Heater Type" designation of "NDPH" and "FDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
HVB	the owner or operator is choosing the NOx per heating value basis emission limit

For "Heater Type" designation of "CONDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
EQ3	the owner or operator is choosing the NOx emission limit based on Equation 3 in §60.102a(g)(2)(iii)(B)

For "Heater Type" designation of "COFDPH":

Code	Description
PPMV	the owner or operator is choosing the NOx concentration emission limit
EQ4	the owner or operator is choosing the NOx emission limit based on Equation 4 in §60.102a(g)(2)(iv)(B)

★ **Complete "Low-NOx" only if "Heater Capacity" is "40-100."**

Low-NOx:
Select one of the following options that describes if the process heater has low-NOx or ultra-low-NOx burners. Enter the code on the form.

For "NO_X Emission Limit" designation of "PPMV":

Code	Description
LOWC	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the monitoring requirements in paragraphs §60.107a(c)(1) through (5)
ALTLOWC	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the alternative to the monitoring requirements in paragraphs §60.107a(c)(1) through (5)

For "NOx Emission Limit" designation of "HVB", "EQ3", and "EQ4:

Code	Description
LOWD	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the monitoring requirements in paragraphs §60.107a(d)(1) through (7)
ALTLOWD	the process heater is equipped with combustion modification-based technology to reduce NOx emissions and the owner or operator elects to comply with the alternative to the monitoring requirements in paragraphs §60.107a(d)(1) through (7)

★ **Complete "O_2 Operating Curve" only if "Low-NOx" is "ALTLOWC" or "ALTLOWD."**

O_2 Operating Curve:
Enter "YES" if an O_2 operating curve is used rather than a single O_2 operating limit. Otherwise, enter "NO."

★ **Complete "Gas Composition Analyzer" only if "Heater Capacity" is "100+" and "NOx Emission Limit" is "HVB"; or if "Heater Capacity" is "40-100" and "NOx Emission Limit" is "HVB" and "Low-NOx" is "ALTLOWD."**

Gas Composition Analyzer:
Enter "YES" if an O_2 operating curve is used rather than a single O_2 operating limit. Otherwise, enter "NO."

Table 2e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

★ **Complete this table only if "Facility Type" is ""DCUFLR" or "FLARE."**

Unit ID. No.:
Enter the identification number (ID. No.) for the affected unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

AMEL:
Enter "YES" if using an alternate means of emission limitation (AMEL) as it pertains to 40 CFR Part 60, Subpart Ja. Otherwise, enter "NO."

★ **Complete "AMEL ID No." only if "Alternate Means of Emission Limitation" is "YES."**

AMEL ID No.:
If an AMEL has been approved, enter the corresponding AMEL unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ **Continue only if "Alternative Means of Emission Limitation" is "NO."**

Alternative Monitoring:
Enter "YES" if the flare meets the requirements and complies with the alternative monitoring mentioned in §60.107a(g). Otherwise, enter "NO."

★ **Complete "§60.107a(e)(4) Exemption" only if "Alt Mon" is "NO."**

§60.107a(e)(4) Exemption:
Enter "YES" if the flare is eligible for the exemption in §60.107a(e)(4). Otherwise, enter "NO."

§60.107a(a)(3) Exemption:
Enter "YES" if the flare is eligible for the exemption on §60.107a(a)(3) (i.e., the fuel gas stream can be demonstrated to be inherently low-sulfur). Otherwise, enter "NO."

★ **Do not complete "Common Source of Fuel Gas" if "60.107a(a)(3) Exemption" is "YES."**

Common Source of Fuel Gas:
Enter "YES" if the flare uses a common source of gas as described in §60.107a(a)(2)(iv). Otherwise, enter "NO."

Modified Flare:
Enter "YES" if the flare is considered as a modified flare. A modification to a flare commences when a project that includes any of the activities in paragraphs §60.100a(c)(1) or (2) is commenced. Otherwise, enter "NO."

Cascaded Flare System:
Enter "YES" if the flare is used as a part of a cascaded flare system. Otherwise, enter "NO."

Table 3a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units

★ **Complete this table for catalytic cracking units (CCUs) that:**

- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meet the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic cracking unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.: Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CCU PM/Ni Emission Limitation: Select one of the following options that describes the HAP PM or Ni emission limit for the catalytic cracking unit. Enter the code on the form.

Code	Description
TABLE1.1	CCU subject to the NSPS for PM in 40 CFR § 60.102 and not electing § 60.100(e) complying with Table 1.1 to Subpart UUU
TABLE1.2A	CCU subject to the NSPS for PM in 40 CFR § 60.102a(b)(1)(i) or 40 CFR §60.102 and electing § 60.100(e) and complying with the 1.0 g/kg (1.0 lb PM/1,000 lb) of coke burn-off in Table 1.2 to Subpart UUU
TABLE1.2B	CCU subject to the NSPS for PM in 40 CFR § 60.102a(b)(1)(i) or 40 CFR § 60.102 and electing § 60.100(e) using a PM CEMS and complying with the 0.040 grain per dry standard cubic feet (gr/dscf) corrected to 0 percent excess air standard in Table 1.2 to Subpart UUU
TABLE1.3A	CCU subject to NSPS for PM in 40 CFR § 60.102a(b)(1)(ii) complying with the 0.5g/kg (0.5 lb/1000 lb) coke burn-off in Table 1.3 to Subpart UUU
TABLE1.3B	CCU subject to NSPS for PM in 40 CFR § 60.102a(b)(1)(ii) using a PM CEMS complying with the 0.020 gr/dcscf corrected to 0 percent excess air standard in Table 1.3 to Subpart UUU
OPT1A	Option 1a: Elect NSPS subpart J requirements for PM per coke burn limit and 30% opacity, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.4 to Subpart UUU
OPT1B	Option 1b: Elect NSPS subpart Ja requirements for PM per coke burn-off limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.5 to Subpart UUU
OPT1C	Option 1c: Elect NSPS subpart Ja requirements for PM concentration limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.6 to Subpart UUU
OPT2	Option 2: PM per coke burn-off limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.7 to Subpart UUU
OPT3	Option 3: Nickel (Ni) lb/hr limit, not subject to the NSPS for PM in 40 CFR § 60.102 or § 60.102a(b)(1) complying with Table 1.8 to Subpart UUU
OPT4	Option 4: Nickel (Ni) per coke burn-off limit, not subject to the NSPS for PM in 40 CFR§ 60.102 or§ 60.102a(b)(1) complying with Table 1.9 to Subpart UUU

CCU PM/Ni Control Device:
Select the control device used for PM or Ni emissions control. Enter the code on the form

Code	Description
CYCLONE	Cyclone
FABFLT	Fabric Filter
WETSCR1	Wet scrubber
WETSCR2	Wet scrubber of the non-venturi jet-ejector design
ESP	Electrostatic Precipitator

CCU PM/Ni Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU PM Control Device Alt ID" only if "CCU PM Control Device" is "OTHER."**

CCU PM/Ni Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CCU PM/Ni Monitoring Method:
Select the monitoring method used to demonstrate compliance with the PM or Ni emission limit. Enter the code on the form.

Code	Description
ALT	Monitoring approved alternative parameters under § 63.1573(e)
ALTCOM	Alternative to COMS approved under § 63.1573(f)
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System

★ **Complete "CCU PM/Ni Alt Monitoring ID" only if "CCU PM/Ni Monitoring Method" is "ALT," or "ALTCOM."**

CCU PM/Ni Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

Multiple CCUs Served by a Single Wet Scrubber:
Enter "Yes" if multiple CCUs are served by a single wet scrubber complying with § 63.1575(j). Otherwise, enter "NO."

Table 3b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units

★ **Complete this table for catalytic cracking units (CCUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic cracking unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CCU CO Emission Limitation:
Select one of the following options that describes the CO emission limit for the CCU. Enter the code on the form.

Code	Description
TABLE8.1	CCU subject to the NSPS requirements for CO in 40 CFR § 60.103 or § 60.102a(b)(4) complying with Table 8.1 to Subpart UUU
TABLE8.2	CCU not subject to the NSPS requirements for CO in 40 CFR § 60.103 or § 60.102a(b)(4) complying with Table 8.2 to Subpart UUU

★ **Complete "CCU CO Control Device" and "CCU CO Control Device ID. No." only if you are using a CO control device, and "CCU CO Emission Limitation" is "TABLE8.2."**

CCU CO Control Device:
Select the control device used for CO emissions control. Enter the code on the form.

Code	Description
FLARE	Flare meeting the requirements of § 63.670
THERMINC	Thermal Incinerator
PRHTR	Process Heater with a design heat input capacity less than 44 MW or in which all vent streams are not introduced into the flame zone
BOILER	Boiler with a design heat input capacity less than 44MW or in which all vent streams are not introduced into the flame zone
OTHER	Other control device approved under § 63.1573(e)

CCU CO Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU CO Control Device Alt ID" only if "CCU CO Control Device" is "OTHER."**

CCU CO Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CCU CO Monitoring Method:
Select the monitoring method used to demonstrate compliance with the CO emission limit. Enter the code on the form.

Code	Description
CEMS	Continuous Emissions Monitoring System for measuring CO concentration
CEMS50-	Using CEMS to demonstrate CO emission average under 50 ppm (dry basis)
CPMS	Continuous Parameter Monitoring System for measuring combustion zone temperature

CCU Bypass Line:
Select one of the following options that describes if a bypass line is used to divert an affected vent stream away from a control device.

Code	Description
NONE	No bypass line serving the catalytic cracking unit
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "CCU Bypass Line Alt Monitoring ID" only if "CCU Bypass Line" is "BYALT."**

CCU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for catalytic reforming units (CRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic reforming unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CRU TOC Emission Limitation:
Select one of the following options that describes the total organic compounds (TOC) emission limitation for the catalytic reforming unit. Enter the code on the form.

Code	Description
TABLE15.1	Vent emissions of TOC to a flare that meets the requirements of §63.670 (Option 1) complying with Table 15.1 to Subpart UUU
TABLE15.2	Reduce uncontrolled emissions of TOC or nonmethane TOC by 98% by weight or to a concentration of 20 ppmv (Option 2) complying with Table 15.2 to Subpart UUU

★ **Do not complete "CRU TOC Compliance Method" if "CRU TOC Emission Limitation" is "Table15.1"**

CRU TOC Compliance Method:
Select the compliance option for reducing TOC emissions.

Code	Description
PRCENT	Complying with the TOC percent reduction limit
CONCEN	Complying with the TOC concentration limit

CRU TOC Control Device:
Select one of the following options that describes the control device used to control TOC emissions.

Code	Description
THERMINC	Thermal Incinerator
PRHTR	Process Heater with a design heat input capacity less than 44 MW or in which all vent streams not introduced into the flame zone
BOILER44-	Boiler with a design heat input capacity less than 44MW or in which all vent streams not introduced into the flame zone
BOILER44+	Boiler with a design heat input capacity less equal to or greater than 44MW or which all vent streams are introduced into the flame zone
NONE	No control device

CRU TOC Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank.

★ **Complete "CCU TOC Control Device Alt ID" only if "CCU TOC Control Device" is "OTHER."**

CCU TOC Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

CRU Engineering Assessment:
Enter "YES" if choosing to perform an engineering assessment for CRUs according to the requirements of § 63.1571(c). Otherwise, enter "NO."

CRU Alternate Monitoring:
Enter "YES" if choosing to monitor alternate parameters in accordance with § 63.1573(e). Otherwise, enter "NO."

★ **Complete "CRU Alt Monitoring ID" only if "CRU Alternate Monitoring" is "ADCS" or "ALT."**

CRU Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for catalytic reforming units (CRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions**
- **meets the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the catalytic reforming unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

CRU HCL Emission Limitation:
Select one of the following options that Which the CRU HCl emission limitation.

Code	Description
TABLE22.1	Existing semi-regenerative CRU reducing uncontrolled emissions of HCl 92% by weight or to a concentration of 30 ppmv complying with Table 22.1 to Subpart UUU
TABLE22.2	Existing cyclic or continuous CRU reducing uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmv complying with Table 22.2 to Subpart UUU
TABLE22.3	New semi-regenerative, cyclic, or continuous CRU reducing uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmv complying with Table 22.3 to Subpart UUU

CRU HCl Compliance Method:
Select the compliance option for reducing TOC emissions.

Code	Description
PRCENT	Complying with the HCl percent reduction limit
CONCEN	Complying with the HCl concentration limit

CRU HCL Control Device:
Select one of the following options that describes the control device used to control HCl emissions.

Code	Description
WETSCRUB	Wet Scrubber
INTSCR1	Internal Scrubbing System meeting the HCl outlet concentration limit
INTSCR2	Internal Scrubbing System meeting the HCl reduction standard
FBGSAS	Fixed-bed gas-solid adsorption system
MBGSAS	Moving-bed gas-solid adsorption system
NONE	No control device

CRU HCL Control Device ID No.:
If applicable, enter the identification number for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP-SUM. If there is no control device, then leave this column blank."

CCU HCL Control Device Alt ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

★ **Complete "Wet Scrubber Alt Monitoring" only if "CRU HCl Control Device" is "WETSCRUB" or "INTSCR2."**

CRU HCl Alt Monitoring:
Select one of the following alternative monitoring methods
.

Code	Description
ALT	Monitoring alternative parameters in accordance with § 63.1573(e)
PH	Using the alternative pH procedure in § 63.1573(b)(1)
ALK	Using the alternative alkalinity method in § 63.1573(b)(2)
NONE	No alternate monitoring

CRU Bypass Line:
Select one of the following options that describes the work practice standard for the bypass line. Enter the code on the form.

Code	Description
NONE	No bypass line serving the SRU
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "CRU Bypass Line Alt Monitoring ID" only if "CRU Bypass Line" is "BYALT."**

CRU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 3e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

★ **Complete this table for sulfur recovery units (SRUs) that:**
- **are located at a petroleum refinery that is a major source of HAP emissions meet the definition of an affected source as defined by § 63.1562(b)**

Unit ID. No.:
Enter the identification number (ID. No.) for the sulfur recovery unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf

SRU Emission Limitation:
Select one of the following options that describes the emission limitation for the SRU. Enter the code on the form.

Code	Description
TABLE29.1.A1	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration complying with 250 ppmv SO_2 emission limit.
TABLE29.1A2	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration complying with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i).
TABLE29.1B1	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration complying with 300 ppmv of reduced sulfur compounds calculated as ppmv SO_2 emission limit.
TABLE29.1B2	New or existing Claus SRU subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration complying with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i).
TABLE29.2A1	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration electing to comply with 250 ppmv SO_2 emission limit (Option 1).
TABLE29.2A2	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using an oxidation control system or reduction control system followed by incineration electing to comply with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i) (Option 1).
TABLE29.2B1	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration electing to comply with 300 ppmv of reduced sulfur compounds calculated as ppmv SO_2 emission limit (Option 1).
TABLE29.2B2	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) using a reduction control system without incineration electing to comply with SO_2 concentration determined using Equation 1 of 40 CFR § 60.102a(f)(1)(i) (Option 1).
TABLE29.3	New or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR § 60.104(a)(2) or § 60.102a(f)(1) electing to comply with TRS emission limit of 300 ppmv (Option 2).

SRU Alternate Monitoring:
Enter "YES" if choosing to monitor alternate parameters in accordance with § 63.1573(e). Otherwise, enter "NO."

★ **Complete "SRU Monitoring Method" only if "SRU Emission Limitation" is "TABLE29.1B1," "TABLE29.1B2," "TABLE29.2B1," "TABLE29.B2," or "TABLE29.3" AND "SRU Alternate Monitoring" is "NO."**

SRU Monitoring Method:
Select the monitoring method used to demonstrate compliance with the SRU emission limitation. Enter the code on the form.

Code	Description
SULOXY	CEMS for monitoring reduced sulfur and O2 concentrations
DILOXY	Instrument having an air or SO_2 dilution and oxidation system to convert reduced sulfur to SO_2 for continuously monitoring and recording the concentration at zero percent excess air of the resultant SO_2
TRSCEMS	CEMS for monitoring TRS concentrations (only use if SRU Emission Limitation is SRU5)
CPMS	CPMS for measuring and recording the combustion zone temperature of each thermal incinerator (only use if SRU Emission Limitation is SRU5)

SRU Startup/Shutdown Emissions:
Select one of the following options that describes the control of startup and shutdown purge gases. Enter the code on the form.

Code	Description
FLARE	Startup/shutdown emissions sent to flare meeting §63.670
TOX	Startup/shutdown emissions sent to thermal oxidizer
TINC	Startup/shutdown emissions sent to thermal incinerator
NONE	Startup/shutdown emissions not sent to control device

SRU Bypass Line:
Select one of the following options that describes the work practice standard for the bypass line. Enter the code on the form.

Code	Description
NONE	No bypass line serving the SRU
BYOPT1	Install and operate an automated system to detect flow in the bypass line (Option 1)
BYOPT2	Use a manual lock system by installing a car-seal or lock-and-key device (Option 2)
BYOPT3	Seal the bypass line by installing a solid blind between piping flanges (Option 3)
BYOPT4	Vent the bypass line to a control device (Option 4)
BYALT	Complying with alternative work practice standard approved by EPA as stated in § 63.1569(a)(2)

★ **Complete "SRU Alt Monitoring ID" only if "SRU Bypass Line" is "BYALT."**

SRU Bypass Line Alt Monitoring ID:
If an alternate has been approved, then enter the corresponding alternate unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the alternate approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate account number. Otherwise, leave this column **blank**.

Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete this table for fluid catalytic cracking units (FCCU) (including CO boiler, CO furnace, and catalyst regenerator vent) located at a major source of NO_x in the Houston/Galveston/Brazoria Eight-Hour ozone nonattainment areas. FCCUs located in the Beaumont/Port Arthur Eight-Hour ozone nonattainment area are exempt from Subchapter B per § 117.103(b)(4), except for CO boilers designated as opt-in units which are addressed in Form OP-UA6. There are no Subchapter B requirements relating to FCCUs in the Dallas/Fort Worth Eight-Hour ozone nonattainment area.**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

NOx Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable emission specifications. Select one of the following options. Enter the code on the form.

Code	Description
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(2) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]
ACF	Boiler is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17)

★ **Complete "310A2-OPTION" only if "NOx Emission Limitation" is "310D."**

310A2-Option:
Select one of the following § 117.310(a)(2) NO_x emission options. Enter the code on the form.

Code	Description
310A2-A	40 ppmv NO_x at 0.0% O2, dry basis per § 117.310(a)(2)(A).
310A2-B	90% NO_x reduction of the exhaust concentration used to calculate the June – August 1997 daily NOx emissions per § 117.310(a)(2)(B).
310A2-C	install and certify a NO_x CEMS or PEMS per § 117.310(a)(2)(C).

NOx Monitoring System:
Select one of the following monitoring system options. Enter the code on the form.

Code	Description
75ARC	Acid rain-affected unit subject to continuous emissions monitoring requirements of 40 CFR Part 75
75ARP	Acid rain-affected unit subject to predictive emissions monitoring requirements of 40 CFR Part 75
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system

NOx Emission Limit Average:
Select one of the following options for the NO_x emission limit. Enter the code on the form.

Code	Description
30DAY	Emission limit in pounds/MMBtu on a rolling 30-day average
BLK1-LB	Emission limit in pounds/hour on a block one-hour average
PPMV	Emission limit in parts per million by volume (ppmv)

Supplemental Fuel:
Enter "YES" if the fluid catalytic cracking unit boiler is using supplemental fuel and thus requires a totalizing fuel flow meter. Otherwise, enter "NO."

Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

★ **Complete this table for fluid catalytic cracking units (FCCU) (including CO boiler, CO furnace, and catalyst regenerator vent) located at a major source of NO_x in the Houston/Galveston/Brazoria Eight-Hour ozone nonattainment areas. FCCUs located in the Beaumont/Port Arthur Eight-Hour ozone nonattainment area are exempt from Subchapter B per § 117.103(b)(4), except for CO boilers designated as opt-in units which are addressed in Form OP-UA6. There are no Subchapter B requirements relating to FCCUs in the Dallas/Fort Worth Eight-Hour ozone nonattainment area.**

Unit ID. No.:
Enter the identification number (ID. No.) for the FCCU (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please go to the TCEQ website at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Do not complete "Fuel Flow Monitoring" if "Supplemental Fuel" is "No."**

Fuel Flow Monitoring:
Select one of the following options to indicate how fuel flow is monitored. Enter the code on the form.

Code	Description
X40A	Fuel flow is with a totalizing fuel flow meter per 30 TAC § 117.340(a)
X40A2-A	Unit operates with a NO_x and diluent CEMS and monitors stack exhaust flow per 30 TAC § 117.340(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NO_x and diluent CEMS and uses a single totalizing fuel flow meter per 30 TAC § 117.340(a)(2)(B)

CO Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable CO emission specifications of 30 TAC Chapter 117, Subchapter B. Select one of the following options. Enter the code on the form.

Code	Description
310C	Title 30 TAC § 117.310(c)(1) 400 ppmv option
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

CO Monitoring System:
Select one of the following options to indicate how the unit is monitored for CO exhaust emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1)
PEMS	Predictive emissions monitoring system complying with 30 TAC § 117.8100(b)
OTHER	Other than CEMS or PEMS

Ammonia NOx Reduction:
Enter "YES" if urea or ammonia is injected into the exhaust stream for NO_x control. Otherwise, enter "NO."

▼ **Continue only if "Ammonia NOx Reduction" is "Yes."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH3 emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

NH3 Monitoring:
Select one of the following options to indicate how the unit is monitored for NH_3 emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
3-36-4	60J3364	FUELOW	73-07					
9-36-4	60J9364	FUELOW	73-07					
11-36-1	60J11361	FUELOW	73-07					
11-36-5	60J11365	FUELOW	73-07					
20-36-1	60J20361	FUELOW	73-07					
25.1-36-1	60J251361	FUELHI	73-07					
25.2-CS	60J252CS	FUELHI	73-07					
29.1-36-001	60J2913601	FUELHI	73-07					
29.2-36-CS	60J29236CS	FUELHI	73-07					
26-CS	60J26CS	FUELHI	73-07					
14-36-3	60J14363	FUELOW	73-07					

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
14-36-4	60J14364	FUELOW	73-07					
30-36-1	60J30361	FUELOW	73-07					
35-36-1	60J35361	FUELHI	73-07					
38-36-251	60J3836251	FUELHI	73-07					
38-36-252	60J3836252	FUELHI	73-07					

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 2)
Federal Operating Permit Program

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Low Sulfur	SO2 Exemption ID	Monitoring Device
3-36-4	60J3364	30PPMV		
9-36-4	60J9364	30PPMV		
11-36-1	60J11361	30PPMV		
11-36-5	60J11365	30PPMV		
20-36-1	60J20361			YES
25.1-36-1	60J251361			YES
25.2-CS	60J252CS			YES
29.1-36-001	60J2913601			YES
29.2-36-CS	60J29236CS			YES
26-CS	60J26CS			YES
14-36-3	60J14363	30PPMV		
30-36-1	60J30361	30PPMV		

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 2)
Federal Operating Permit Program

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart J: Standards of Performance for Petroleum Refineries

Date:	**March 4, 2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Low Sulfur	SO2 Exemption ID	Monitoring Device
30-36-1	60J30361	30PPMV		
35-36-1	60J35361			YES
38-36-251	60J3836251			YES
38-36-252	60J3836252			YES

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 3)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced after May 14, 2007

Date:	**03/5/2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	DCU Construction/ Modification Date	Newly Constructed	PM Emission Limit	PM Control	CEMs Exempt	Post Combustion
45-36-1	Ja-45361	PROHTR	08+						

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 4)
Federal Operating Permit Program

Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**03-05-2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	SRP SO2 Control	SRP Claus Unit	Reduced Sulfur Compounds Monitor Alt	Flow Rate Weighted Average	O_2 Monitoring Alt
45-36-1	Ja-45361					

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 5)
Federal Operating Permit Program

Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**09-05-2024**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	AMEL	AMEL ID No.	Sulfur Emission Limit	§60.107a(b) Exemption	Common Source of Fuel Gas
45-36-1	Ja-45361			H2S	NO	NO

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 6)
Federal Operating Permit Program

Table 2d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	**08-22-2022**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Alternative Standard	Heater Capacity	Heater Type	NOx Emission Limit	Low NOx	O_2 Operating Curve	Gas Composition Analyzer
45-36-1	Ja-45361	NO	40-100	NDPH	HVB	ALTLOWC	NO	NO

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 7)
Federal Operating Permit Program

Table 2e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ja: Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction or Modification Commenced After May 14, 2007

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	AMEL	AMEL ID No.	Alternative Monitoring	§60.107a(e)(4) Exemption	§60.107a(a)(3) Exemption	Common Source of Fuel Gas	Modified Flare	Cascaded Flare System

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 8)
Federal Operating Permit Program

Table 3a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CCU PM/Ni Emission Limitation	CCU PM/Ni Control Device	CCU PM/Ni Control Device ID No.	CCU PM/Ni Control Device Alt ID	CCU PM/Ni Monitoring Method	CCU PM/Ni Alt Monitoring ID	Multiple CCUs Served by a Single Wet Scrubber

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 9)
Federal Operating Permit Program

Table 3b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CCU CO Emission Limitation	CCU CO Control Device	CCU CO Control Device ID No.	CCU CO Control Device Alt ID	CCU CO Monitoring Method	CCU Bypass Line	CCU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 10)
Federal Operating Permit Program

Table 3c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries - Catalytic Reforming Units

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CRU TOC Emission Limitation	CRU TOC Compliance Method	CRU TOC Control Device	CRU TOC Control Device ID No.	CRU TOC Control Device Alt ID	CRU Engineering Assessment	CRU Alternate Monitoring	CRU Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 11)
Federal Operating Permit Program

Table 3d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

TDate:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	CRU HCl Emission Limitation	CRU HCl Compliance Method	CRU HCl Control Device	CRU HCl Control Device ID No.	CRU HCl Control Device Alt ID.	CRU HCl Alt Monitoring	CRU Bypass Line	CRU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 12)
Federal Operating Permit Program

Table 3e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart UUU: National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	SRU Emission Limitation	SRU Alternate Monitoring	SRU Monitoring Method	SRU Startup/Shutdown Emissions	SRU Bypass Line	SRU Bypass Line Alt Monitoring ID

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 13)
Federal Operating Permit Program

Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	NOx Emission Limitation	310A2-Option	NOx Monitoring System	NOx Emission Limit Average	Supplemental Fuel

Texas Commission on Environmental Quality

Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes

Form OP-UA50 (Page 14)
Federal Operating Permit Program

Table 4b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID. No.	SOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	Ammonia NOx Reduction	NH3 Emission Limitation	NH3 Monitoring

From: Alfredo Mendoza
Sent: Thursday, February 29, 2024 4:43 PM
To: Jaini, Vinod K
Cc: Mareno, Katie; Steve.C.Bonura@p66.com
Subject: Technical Review - Phillips 66 Company, Sweeny Refinery, permit O1626
Attachments: Major NSR Summary Table permit 5920A.docx

Vinod,

I have completed my review of the Title V minor revision application, project 35645, submitted for the Sweeny Refinery. There were issues with the OP-UA50 form that was submitted for incorporating NSPS J and Ja requirements that I have listed below:

- On OP-UA50, Table 1a for emission units 3-36-4, 9-36-4, 11-36-1, 11-36-5, 20-36-1, 14-36-3, and 14-36-4 that have a Construction/Modification date of 73-B (On or before June 11, 1973), 40 CFR Part 60, Subpart J does not apply. This will be fine if you are accepting NSPS J requirements for these units as I will have to change the construction/modification date code in our database to 73-07 for these units to generate the NSPS J requirements as our forms were designed for the applicability dates built into the regulation.
- On OP-UA50, Table 1a for emission units 25.1-36-1, 25.2-CS, 29.1-36-001, 29.2-36-CS, 26-CS, 30-36-1, 35-36-1, 38-36-251, and 38-36-252; the Construction/Modification date was listed as 73-08. This should be corrected to 73-07 as this is the correct date code for units with a Facility Type of either FUELHI or FUELOW as stated in the OP-UA50 form instructions.
- The Contact Material, Sulfur Content, Discharged Gases, and CO Monitoring codes should be removed for all emission units listed on Table 1a. As stated in the form navigation instructions, these attributes are skipped and the attributes on Table 1b should be completed for Facility Types of FUELOW and FUELHI.
- Table 1b was not completed for any of the emission units listed on Table 1a. The Low Sulfur attribute must be completed for the FUELOW units and the Monitoring Device attribute must be completed for all emission units with the FUELHI attribute. Please submit Table 1b for all emission units listed on Table 1a.
- The application indicated that 40 CFR Part 60, Subpart Ja is applicable to emission unit 45-36-1 on the OP-REQ3. OP-UA50, Tables 2a-2e as applicable for 40 CFR Part 60, Subpart Ja was not submitted in the revision application. Please submit Table 2a-2e on OP-UA50 for unit 45-36-1. Previous attributes indicate that this unit is a process heater, therefore Table 2a, Table 2c, and Table 2d on form OP-UA50 must be submitted.

I have also attached a revised Major NSR Summary Table for permit 5920A, N292, and PSDTX103M4. This table is based off the latest MAERT that was issued on December 22, 2021. I copied the Special Condition numbers from the previous Major NSR Summary Table. Please review and make any necessary updates to the Special Conditions Numbers as the conditions were revised on December 8, 2023.

Please submit the updated OP-UA50 form for the 40 CFR Part 60, Subpart J and Ja table corrections as noted above and any update to the Major NSR Summary Table via email by **March 8, 2023**. If you have any questions regarding the items listed above, please contact me.

Thanks,

Alfredo Mendoza, P.E.
Technical Specialist
TCEQ Air Permits Division
Operating Permits Section
ph: (512) 239-1335
alfredo.mendoza@tceq.texas.gov

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Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 38 - Distillate Hydrotreater							
38-0-0	DHT Fugitives (5)	VOC	3.09	13.52	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.09	0.41	29	29	
		NH_3	<0.01	0.01	29	29	
38-36-251	Reactor Charge Heater	VOC	0.53	2.31	6	6	
		NO_x	2.67	7.73	6, 16, 18	6, 16, 17,18	16, 17, 18
		CO	3.60	15.62	6,16,18	6, 16, 17, 18	16, 17, 18
		SO_2	2.60	11.13	3,6	3, 6	
		PM	0.74	3.20	6	6	
		PM_{10}	0.74	3.20	6	6	
		$PM_{2.5}$	0.74	3.20	6	6	
38-36-252	Stripper Reboiler	VOC	0.53	2.34	6	6	
		NO_x	2.67	11.71	6, 16, 18	6, 16, 17, 18	16, 17, 18
		CO	7.13	31.22	6,16,18	6, 16, 17, 18	16, 17, 18
		SO_2	2.60	11.39	3, 6	3, 6	
		PM	0.74	3.23	6	6	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Unit 9 – Crude Unit							
9-0-0	Fugitives (5) (7)	VOC	3.87	16.95	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.01	29	29	
9-36-4	Crude Charge Heater (7)	VOC	1.26	5.53	6, 36	6,36	
		NO_x (6)	16.86	69.29	6, 19, 35, 36	6, 19, 30, 36	
		CO	16.85	40.19	6, 19, 36	6, 19, 36	
		SO_2	6.15	8.42	3, 6, 36	3, 6, 36	
		PM	1.74	7.64	6, 36	6, 36	
		PM_{10}	1.74	7.38	6, 36	6, 36	
		$PM_{2.5}$	1.74	7.38	6, 36	6, 36	
54-22-2	Cooling Tower No. 2	VOC	0.71	3.13	23	23	
		PM	0.68	2.98	24	24	24
		PM_{10}	0.48	2.10	24	24	24
		$PM_{2.5}$	<0.01	0.01	24	24	24
Unit 25.1 – Sour Crude Unit							
25.1-0-0		VOC	3.48	15.27	25, 26, 28	25, 26, 28	25

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Sour Crude Unit Fugitives (5)	Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.03	0.08	29	29	
25.1-36-1	Crude Charge Heater	VOC	2.52	11.03	6, 19, 36	6, 19, 30, 36	
		NO_x (6)	93.40	75.68	6,19,35,36	6, 19, 30, 36	
		CO	33.62	80.21	6,19,36	6, 19, 30, 36	
		SO_2 (6)	12.27	53.75	3,6,19,36	3, 6, 19, 30, 36	
		PM (6)	3.48	15.24	6,19,36	6, 19, 30, 36	
		NH_3	2.73	11.96	6,19,36	6, 19, 30, 36	
4-22-14	Cooling Tower No. 14 (5)	VOC	2.94	14.72	23	23	
		PM	2.80	12.27	24	24	24
		PM_{10}	1.98	8.65	24	24	24
		$PM_{2.5}$	0.01	0.03	24	24	24
56-61-16	Expansion HP Flare	VOC	0.02	0.07	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	
		CO	0.19	0.85	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
Unit 25.2 - Distillate Hydrotreater Unit							

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
25.2-0-0	DHT Unit Fugitives (5)	VOC	1.91	8.37	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.02	0.05	29	29	
25.2-CS	Reactor Charge Heater	VOC	0.34	1.40	6, 19	6, 19	
		NO_x (6)	10.08	41.53	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		CO	4.54	18.69	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		SO_2 (6)	1.66	6.82	3, 6, 19	3, 6, 19	
		PM (6)	0.47	1.93	6, 19	6, 19	
Combo Tower Reboiler		VOC	0.38	1.40	6, 19	6, 19	
		NOx (6)	11.36	41.53	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		CO	5.11	18.69	6, 16, 18, 19	6, 16, 17, 18, 19	16, 17, 18
		SO_2 (6)	1.87	6.82	3, 6,19	3, 6, 19	
		PM (6)	0.53	1.93	6, 19	6, 19	
Unit 26.1 – Cat Feed Hydrotreater							
26-CS	ARDS Charge Heater 1	VOC	0.72	2.44	6, 19, 36	6, 19, 36	
		NO_x (6)	16.08	54.23	6, 19, 35, 36	6, 19, 36	
		CO	9.65	17.72	6, 19 ,36	6, 19, 36	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2 (6)	3.52	11.88	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	1.00	3.37	6, 19, 36	6, 19, 36	
	ARDS Charge Heater 2	VOC	0.72	2.44	6, 19, 36	6, 19, 36	
		NOx (6)	13.40	45.19	6, 19, 35, 36	6, 19, 36	
		CO	9.65	17.72	6, 19, 36	6, 19, 36	
		SO_2 (6)	3.52	11.88	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	1.00	3.37	6, 19, 36	6, 19, 36	
26-CS (continued)	Recycle Heater 1	VOC	0.23	0.95	6, 19, 36	6, 19, 36	
		NO_x (6)	4.20	17.68	6, 19, 35, 36	6, 19, 36	
		CO	3.02	10.57	6, 19, 36	6, 19, 36	
		SO_2 (6)	1.10	4.65	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	0.31	1.32	6, 19, 36	6, 19, 36	
	Recycle Heater 2	VOC	0.23	0.95	6, 19, 36	6, 19, 36	
		NO_x (6)	4.20	17.68	6, 19, 35, 36	6, 19, 36	
		CO	3.02	10.57	6, 19, 36	6, 19, 36	
		SO_2 (6)	1.10	4.65	3, 6, 19, 36	3, 6, 19, 36	
		PM (6)	0.31	1.32	6, 19, 36	6, 19, 36	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
26.1-0-0	CFHT Fugitives (5)	VOC	3.99	17.31	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25,26,28	25
		H_2S	0.31	1.32	29	29	
Unit 26.2 – Hydrogen Purification Unit							
26.2-0-0	HPU Fugitives (5)	VOC	5.02	22.01	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.07	0.27	29	29	
Unit 27 – Fluid Catalytic Cracking Unit							
27.1-0-0	FCC Fugitives (5)	VOC	2.20	9.59	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.02	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	0.02	29	29	
27.1-36-RE	FCC Regenerator Exhaust	VOC	6.16	26.98	16, 18, 33	16, 17, 18, 33	16,17,18
		NO_x (6)	261.99	114.75	16, 18, 19, 33	16, 17, 18, 19, 30, 33	16, 17, 18
		CO	508.21	1059.56	16, 18, 19, 33	16, 17, 18, 19, 33	16, 17, 18
		SO_2 (6)	547.21	199.73	3, 16, 18, 19, 33	3, 16, 17, 18, 19, 33	16, 17, 18
		PM_{10} (6)	87.99	385.38	16, 18, 33	16, 17, 18, 33	16, 17, 18
		H_2SO_4	22.03	96.49	16, 18, 33	16, 17, 18, 33	16, 17, 18

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NH_3	4.84	21.20	16, 18, 19, 33	16, 17, 18, 19, 33	16, 17, 18
27.2-0-0	FCC Gas Plant Fugitives (5)	VOC	1.65	7.18	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
27.3-0-0	FCC Gas Plant 27.3 Fugitives (5)	VOC	2.76	12.11			
		Benzene	<0.01	<0.01			
27.3 MSS	27.3 Maintenance, Startup and Shutdown	VOC	1.20	<0.01			
56-61-17	Expansion LP Flare	VOC	0.10	0.46	4, 34	4, 34	
		NO_x	0.05	0.23	4, 34	4, 34	
		CO	0.45	1.96	4, 34	4, 34	
		SO_2	0.37	1.60	3, 4, 34	3, 4, 34	
Unit 28 and Unit 39.1 – Sulfur Recovery Units							
28.1-0-0	ARU/SWS Fugitives (5)	VOC	1.19	5.19	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.15	0.64	29	29	
		NH_3	0.09	0.39	29	29	
28.1-61-9	DEA Stripper Flare	VOC	0.04	0.17	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	0.34	1.47	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
		H_2S	<0.01	<0.01	3, 4, 34	3, 4, 34	
28.1-61-10	Sour Water Stripper Flare	VOC	0.02	0.08	4, 34	4, 34	
		NO_x	0.04	0.17	4, 34	4, 34	
		CO	0.34	1.47	4, 34	4, 34	
		SO_2	0.01	0.04	3, 4, 34	3, 4, 34	
		H_2S	<0.01	<0.01	3, 4, 34	3, 4, 34	
28.2-0-0	SRU Fugitives (5)	VOC	0.76	3.34	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.05	29	29	
		NH_3	0.23	0.99	29	29	
28.2-36-2	Unit 28 Incinerator Stack	VOC	0.93	4.09	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		NO_x (6)	8.13	35.62	16, 18, 22, 32, 34	16, 17, 18, 22, 30, 32, 34	16, 17, 18, 32
		CO	20.03	87.72	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		SO_2 (6)	114.45	501.27	3, 9, 16, 18, 19, 22, 32, 34	3, 9, 16, 17, 18, 19, 22, 32, 34	16, 17, 18, 32
		PM (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10} (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		$PM_{2.5}$ (6)	3.83	16.78	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		H_2SO_4 (6)	1.33	5.83	16, 18, 22, 32, 34	16, 17, 18, 22, 32, 34	16, 17, 18, 32
		H_2S	2.43	10.65	3, 16, 18, 21, 22, 32, 34	3, 16, 17, 18, 21, 22, 32, 34	16, 17, 18, 32
39.1-95-118	Unit 39.1 Incinerator Stack	VOC	0.24	1.04	16, 18, 22	16, 17, 18, 22	16, 17, 18
		NO_x (6)	2.37	10.37	16,18,22	16, 17, 18, 22	16, 17, 18
		CO	8.95	39.22	16,18,22	16, 17, 18, 22	16, 17, 18
		SO_2 (6)	51.17	224.12	3, 9, 16, 18, 19, 22	3, 9, 16, 17, 18, 19, 22	16, 17, 18
		PM (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		PM_{10} (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		$PM_{2.5}$ (6)	1.24	5.43	16, 18, 22	16, 17, 18, 22	16, 17, 18
		H_2SO_4 (6)	0.66	2.89	16, 18, 22	16, 17, 18, 22	16, 17, 18
		H_2S	1.09	4.76	3, 16, 18, 21, 22	3, 16, 17, 18, 21, 22	16, 17, 18
28.2-36-2 and 39.1-95-118 Combined Emissions	Unit 28 and Unit 39.1 Incinerator Stacks	VOC	-	4.09			
		NO_x (6)	-	35.62			
		CO	-	87.72			
		SO_2 (6)	-	326.80			

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM (6)	-	16.78			
		PM_{10} (6)	-	16.78			
		$PM_{2.5}$ (6)	-	16.78			
		H_2SO_4 (6)	-	5.83			
		H_2S	-	9.59			
28-95-300	DEA Tank	VOC	0.05	0.01	5	5	5
28-95-316	Sour Water Surge Tank 316	VOC	0.15	0.02	5, 13, 14	5, 13, 14	5
		Benzene	<0.01	<0.01	5, 13, 14	5, 13, 14	5
		H_2S	1.56	0.17	5, 13, 14	5, 13, 14	5
		NH_3	1.04	0.11	5, 13, 14	5, 13, 14	5
68-95-91	Sour Water Surge Tank 91	VOC	2.59	9.03	5, 13	5, 13	5
		Benzene	<0.01	0.03	5, 13	5, 13	5
		H_2S	0.02	0.07	5, 13	5, 13	5
		NH_3	0.01	0.05	5, 13	5, 13	5
68-95-91A	Sour Water Storage Tank	VOC	0.20	0.69	5, 13	5, 13	5
		H_2S	0.01	0.01	5, 13	5, 13	5
		NH_3	0.01	0.01	5, 13	5, 13	5

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
68-95-97	Sour Water Surge Tank 97	VOC	1.79	6.28	5, 13	5, 13	5
		Benzene	<0.01	0.02	5, 13	5, 13	5
		H_2S	0.01	0.05	5, 13	5, 13	5
		NH_3	0.01	0.03	5, 13	5, 13	5
28-95-306	MDEA Tank	VOC	0.02	<0.01	5	5	5
39.1-0-0	Piping Fugitives (5)	VOC	0.40	1.76	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.45	1.96	29	29	
		NH_3	0.09	0.39	29	29	
39.1-95-114	MDEA Tank	VOC	0.06	<0.01	5	5	5
39.1-95-121	Process Sewer Sump	VOC	<0.01	0.01	5	5	5
39.1-X-X	Cooling Tower No. X	VOC	0.11	0.46	23	23	
		PM	0.13	0.55	24	24	24
		PM_{10}	0.09	0.39	24	24	24
		$PM_{2.5}$	<0.01	<0.01	24	24	24
Unit 29.1 Vacuum Unit							
29-61-1	Flare	VOC	0.86	1.02	4, 34	4, 34	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NO_x	0.24	0.69	4, 34	4, 34	
		CO	1.26	3.58	4, 34	4, 34	
		SO_2	4.56	19.97	3, 4, 34	3, 4, 34	
		H_2S	0.01	0.01	4, 34	4, 34	
29.1-0-0	Vacuum Fugitives (5)	VOC	2.19	9.43	25, 26, 28	25, 26, 28	25
		Benzene	0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.01	0.01	29	29	
29.1-36-001	Vacuum Unit Heater	VOC	2.04	7.13	6, 36	6, 36	
		NO_x	22.65	79.37	6, 16, 18, 35, 36	6, 16, 17, 18, 30, 36	16, 17, 18
		CO	27.18	51.88	6, 16, 18, 36	6, 16, 17, 18, 36	16, 17, 18
		SO_2	8.00	28.05	3, 6, 36	3, 6, 36	
		PM	2.81	9.86	6, 36	6, 36	
54-22-20	Cooling Tower No. 20 (5)	VOC	1.18	5.17	23	23	
		PM	1.41	6.16	24	24	24
		PM_{10}	0.99	4.34	24	24	24
		$PM_{2.5}$	<0.01	0.01	24	24	24
Unit 29.2 – Delayed Coker							

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
29.2-0-0	Coker Fugitives (5)	VOC	5.64	24.69	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	0.22	0.92	29	29	
29.2-0-1	Coke Handling Fugitives (5)	PM	1.95	2.23			
29.2-36-CS	Coker Heater A	VOC	1.46	4.96	6	6, 41	
		NO_x	16.20	54.18	6, 16, 18, 19, 35	6, 16, 17, 18, 19, 30, 41	16, 17, 18
		CO	9.89	33.71	6, 16, 18, 19	6, 16, 17, 18, 19, 41	16, 17, 18
		SO_2	5.27	17.96	3, 6	3, 6, 41	
		PM	2.01	6.85	6	6, 41	
		PM_{10}	2.01	6.85	6	6, 41	
		$PM_{2.5}$	2.01	6.85	6	6, 41	
29.2-36-CS	Coker Heater B	VOC	1.46	4.96	6	6, 41	
		NO_x	16.20	54.18	6, 16, 18, 19	6, 16, 17, 18, 19, 30, 41	16, 17, 18
		CO	9.89	33.71	6, 16, 18, 19	6, 16, 17, 18, 19, 41	16, 17, 18
		SO_2	5.27	17.96	3,6	3, 6, 41	
		PM	2.01	6.85	6	6, 41	

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	2.01	6.85	6	6, 41	
		$PM_{2.5}$	2.01	6.85	6	6, 41	
29.2-CDC-0	Coke Drum Cutting Fugitives	VOC	14.62	8.01			
		H_2S	3.21	1.76			
29.2-CDW-0	Coke Drum Water Fugitives	VOC	5.25	7.19			
29.2-V-CAP	Coker Drum Cap	VOC	19.43	10.64			
		PM	4.21	2.31			
		PM_{10}	4.21	2.31			
		$PM_{2.5}$	4.21	2.31			
		H_2S	4.26	2.33			
Storage Tanks							
68-95-99A	Gas Oil Storage Tank	VOC	34.35	6.85	5	5	5
68-95-99B	Gas Oil Storage Tank	VOC	16.95	6.85	5	5	5
68-95-99C	Gas Oil Storage Tank	VOC	36.00	6.85	5	5	5
68-95-213	Alkylate Storage Tank	VOC	1.56	6.79	5	5	5
68-95-228	Gasoline Storage Tank	VOC	1.03	2.47	5	5	5
68-95-246	DAC Storage Tank	VOC	0.32	1.31	5	5	5

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
68-95-418	Gas Oil Storage Tank	VOC	36.00	14.66	5	5	5
68-95-419	Gas Oil Storage Tank	VOC	34.35	14.66	5	5	5
68-95-401	Storage Tank 401	VOC	0.16	0.43			
29-95-439	Storage Tank 439	VOC	0.24	0.44			
Miscellaneous Fugitive Areas							
3-0-0	Unit 3 Fugitives (5)	VOC	2.60	11.38	25, 26 ,28	25, 26, 28	25
		Benzene	<0.01	0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
4-0-0	Unit 4 Fugitives (5)	VOC	2.47	10.84	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
5-0-0	Unit 5 Fugitives (5)	VOC	1.88	8.22	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
8-0-0	Unit 8 Fugitives (5)	VOC	0.47	2.01	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	<0.01	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	29	29	
15-0-0	Unit 15 Fugitives (5)	VOC	3.97	17.40	25, 26, 28	25, 26, 28	25

Major NSR Summary Table

Permit Numbers: 5920A, N292, and PSDTX103M4					Issuance Date: December 8, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Benzene	0.06	0.26	25, 26, 28	25, 26, 28	25
20-0-0	Unit 20 Fugitives (5)	VOC	2.61	11.41	25, 26, 28	25, 26, 28	25
		Benzene	<0.01	0.03	25, 26, 28	25, 26, 28	25
68.1-0-0	Refinery Tank Farm Fugitives (5)	VOC	8.85	40.52	25, 26, 27, 28	25, 26, 27, 28	25
		Benzene	0.11	0.49	25, 26, 27, 28	25, 26, 27, 28	25
		H_2S	0.01	0.01	25, 26, 27, 28	25, 26, 27, 28	25
		NH_3	0.04	0.19	25, 26, 27, 28	25, 26, 27, 28	25
68.2-0-2	Refinery Tank Farm Fugitives (5)	VOC	3.05	13.38	25, 26, 27, 28	25, 26, 27, 28	25
		Benzene	0.12	0.53	25, 26, 28	25, 26, 28	25
		H_2S	<0.01	<0.01	25, 26, 28	25, 26, 28	25
DSLRAIL	Diesel Loading	VOC	0.81	2.61	29, 30	29	
DSLFUG	Diesel Fugitives	VOC	0.15	0.64	25, 26, 27, 28	25, 26, 27, 28	25
BASELINE EMISSIONS FOR EPNS LISTED IN TABLE 1							
		VOC		776.38			
		NO_x		1775.10			
		CO		1417.60			
		PM		755.70			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
NH_3 - ammonia
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid mist
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Emissions are covered under PSD-TX-103M4.
(7) Refer to Pollution Control Project authorized under Standard Permit Registration No. 118459 for current authorized emission rates.

From: ElecRsp <ElecRsp@tceq.texas.gov>
Sent: Friday, December 8, 2023 8:52 AM
To: Mareno, Katie
Cc: Jaini, Vinod K; R6AirPermitsTX@EPA.gov; Rachel Vo; jodieV@brazoria-county.com
Subject: [EXTERNAL]5920A - Approval - Phillips 66 Company - 364113
Attachments: 5920A_364113_Permit Face_6793507.docx; 5920A_364113_Conditions_6793509.docx; 5920A_364113_Approval_6793511.docx

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Texas Commission on Environmental Quality
Air Permits Division
(512) 239-1250

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Phillips 66 Company
Authorizing the Construction and Operation of
Sweeny Refinery
Located at **Sweeny, Brazoria County, Texas**
Latitude 29.070833 Longitude -95.752777

Permits: 5920A, N292 and PSDTX103M4

Revision Date: December 8, 2023

Expiration Date: February 11, 2029

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 5920A, N292, and PSDTX103M4

Emission Limitations

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. (PSD) **(09/20)**

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 percent are not consistent with good practices for minimizing emissions. **(11/04)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60): **(09/20)**

   A. Subpart A, General Provisions.

   B. Subpart J, Standards of Performance for Petroleum Refineries

   C. Subpart Ja, Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

   D. Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984

   E. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984

   F. Subpart QQQ, Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61: **(09/20)**

   A. Subpart A, General Provisions.

   B. Subpart FF, National Emission Standard for Benzene Waste Operations

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63: **(09/20)**

   A. Subpart A, General Provisions.

B. Subpart G, National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater

C. Subpart CC, National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries

D. Subpart UUU, National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

E. Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters

Emission Standards and Operational Specifications

6. Combustion units shall be fired with either fuel gas containing no more than 160 parts per million by volume (ppmv) of hydrogen sulfide (H_2S) or sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet. Fuel gas H_2S content shall be monitored and recorded in accordance with New Source Performance Standards (NSPS) Subpart J. Fuel gas for the Unit 9 Crude Heater shall maintain an annual average of no more than 50 ppmv H_2S. (PSD) **(12/10)**

Flare

7. Flares (EPNs 56-61-16, 56-61-17, 28.1-61-9, and 28.1-61-10) shall be designed and operated in accordance with the following requirements:

   A. The combined natural gas and waste stream to the flare tip shall meet the Title 40 Code of Federal Regulation (40 CFR) § 60.18 specifications for minimum net heating value and maximum tip velocity under normal, upset, and maintenance flow conditions. Flare testing per 40 CFR § 60.18(f) may be required by the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office to demonstrate compliance with this condition.

   B. The flare shall be operated with a flame present at all times and have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

   C. The flare shall be operated with no visible emissions except for periods not to exceed a total of five minutes during any two consecutive hours. Such operation shall be ensured by the use of steam or air assist to the flare for flare EPN 56-61-17. Flare EPNs 56-61-16, 28.1-61-9 and 28.1-61-10 shall be non-assisted. **(09/20)**

8. The Flare (EPN 29-61-1) shall be designed and operated in accordance with the following requirements: **(09/20)**

   A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.

   The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam assist to the flare.

D. The permit holder shall install a continuous flow monitor and composition analyzer (or calorimeter, if applicable) that provide a record of the vent stream flow and composition to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition (or Btu content) shall be recorded each hour.

The monitors shall be calibrated or have a calibration check performed on an annual basis to meet the following accuracy specifications: the flow monitor shall be ±5.0%, temperature monitor shall be ±2.0% at absolute temperature, and pressure monitor shall be ±5.0 mm Hg.

Calibration of the analyzer shall follow the procedures and requirements of Section 10.0 of 40 CFR Part 60, Appendix B, Performance Specification 9, as amended through October 17, 2000 (65 FR 61744), except that the multi-point calibration procedure in Section 10.1 of Performance Specification 9 shall be performed at least once every calendar quarter instead of once every month, and the mid-level calibration check procedure in Section 10.2 of Performance Specification 9 shall be performed at least once every calendar week instead of once every 24 hours. The calibration gases used for calibration procedures shall be in accordance with Section 7.1 of Performance Specification 9. Net heating value of the gas combusted in the flare shall be calculated according to the equation given in 40 CFR §60.18(f)(3) as amended through October 17, 2000 (65 FR 61744).

The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12-month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §§60.18(f)(3) and 60.18(f)(4) shall be recorded at least once every hour. Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit amendment application, PI-1 dated April 28, 2020.

Storage Tanks

9. Storage tanks must comply with the following requirements. The control requirements specified in paragraphs A through D of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.5 pound per square inch, absolute (psia) at the maximum expected operating temperature or (2) to storage tanks smaller than 25,000 gallons.

A. The tank emissions must be controlled as specified in one of the paragraphs below:

(1) An internal floating deck or roof or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof (IFR): (1) a liquid mounted seal, (2) two continuous seals mounted one above the other, or (3) a

mechanical shoe seal. Installation of equivalent control requires prior review and approval by the TCEQ Executive Director.

(2) An open-top tank shall contain a floating roof (external floating roof tank) which uses double seal or secondary seal technology provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight

B. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and any seal gap measurements specified in Title 40 Code of Federal Regulations § 60.113b (40 CFR § 60.113b) Testing and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates inspection was performed, any measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

C. The floating roof design shall incorporate sufficient flotation to conform to the requirements of American Petroleum Institute (API) Code 650, or an equivalent degree of flotation, except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.

D. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

E. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

(1) Emissions from the Sour Water Storage Tank (EPN 68-95-91A) shall be calculated using the methods that were used to determine the MAERT limits in the permit amendment application, PI-1 dated April 28, 2020. Sample calculations from the application shall be attached to a copy of this permit at the plant site.

(2) Emissions for all other tanks shall be calculated using equations and parameters in the following versions of these documents: (a) AP-42 “Compilation of Air Pollutant Emission Factors, Chapter 7 - Liquid Storage Tanks” (9/97 version) and (b) the TCEQ publication titled “Technical Guidance Package for Chemical Sources Storage Tanks” (dated February 1995). In accordance with this document, emissions for Tanks 99A, 99B, 99C, 418, and 419 shall be calculated using four turnovers per year as long as these tanks continue to operate as “constant level” or surge tanks such that tank level changes are minimal relative to the actual throughput. **(2/00)**

10. All sour water storage tanks shall be subject to the following conditions:

A. Tank Nos. 28-95-316, 68-95-91, 68-95-97, and 68-95-91A shall be used as sour water storage tanks. **(09/20)**

B. A minimum hydrocarbon layer of 24 inches must be maintained above the sour water in these tanks and must be checked weekly.

C. Twelve feet of sour water shall be maintained in Tank No. 68-95-91, which shall be equipped with redundant interface level detection devices which will provide sour water/hydrocarbon interface level detection. These detectors shall alarm immediately should the sour water/hydrocarbon interface go below 12 feet.

D. Records of all alarms shall be maintained.

E. The sour water storage system shall have a minimum online retention time of three days based on a maximum sour water flow rate of 99,000 gallons/hr into the tanks. (PSD) **(12/10)**

11. Sour Water Storage Tank No. 28-95-316 is exempt from the floating roof requirements of Special Condition 9 and shall vent through a carbon adsorption system (CAS) consisting of at least two activated carbon canisters that are connected in series.

A. The CAS shall be sampled every day to determine breakthrough of volatile organic compounds (VOC). The sampling point shall be at the outlet of the initial canister but before the inlet to the second or final polishing canister. Sampling shall be done during tank filling.

B. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a TCEQ approved alternative detector. The instrument/FID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR 60, Appendix A). Sampling and analysis for VOC breakthrough shall be performed as follows:

(1) Immediately prior to performing sampling, the instrument/FID shall be calibrated with zero and span calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be methane at a concentration within ±10 percent of 20 ppmv, and certified by the manufacturer to be ±2 percent accurate. Calibration error for the zero and span calibration gas checks must be less than ±5 percent of the span calibration gas value before sampling may be conducted.

(2) The sampling point shall be at the outlet of the initial canister but before the inlet to the second or final polishing canister. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.

(3) During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages, during tank filling.

C. Breakthrough shall be defined as the highest 1-minute average measured VOC concentration at or exceeding 20 ppmv. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within 8 hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.

D. Records of the CAS monitoring maintained at the plant site, shall include (but are not limited to) the following:

(1) Sample time and date.

(2) Monitoring results (ppmv).

(3) Corrective action taken including the time and date of that action.

(4) Process operations occurring at the time of sampling.

E. Alternate monitoring or sampling requirements that are equivalent or better may be approved by the TCEQ Regional Manager. Alternate requirements must be approved in writing before they can be used for compliance purposes. **(12/10)**

12. There shall be at least 94,000 barrels of holdup (excess) capacity maintained for sour water storage. This capacity shall only be used for sour water storage when necessary to avoid flaring of acid gases due to reduced SRU complex capacity. It shall be restored as soon as possible, not to exceed 30 days, after the return of the sulfur recovery complex to normal operations. (PSD) **(8/07)**

Heaters

13. The heaters shall not exceed the maximum hourly average firing rates based on high heating values or the NO_x or CO rates for the specified averaging periods as follows: **(06/22)**

Heater and/or Heater EPN	Max Heater Duty Hourly Average	Max Heater Duty Rolling 12 Month Average	NO_x lb/MMBtu Hourly Average	NO_x lb/MMBtu Rolling 12 Month Average	CO ppmvd @ 3% O_2 Hourly Average	CO ppmvd @ 3% O_2 Rolling 12 Month Average
9-36-4	234	234	0.072	0.072	100	55
25.1-36-1	467	467	0.2	0.037	100	55
25.2-36-51	63	59	0.16	0.16	100	100
25.2-36-52	71	59	0.16	0.16	100	100
25.2-CSa			0.16	0.16	100	100
26.1-36-1	134	103	0.12	0.12	100	55
26.1-36-1.1	134	103	0.1	0.1	100	55
26.1-36-2	42	40	0.1	0.1	100	83
26.1-36-2.1	42	40	0.1	0.1	100	83
26-CSb			0.12	0.1072	100	63
29.1-36-001	378	302	0.06	0.06	100	55
29.2-36-101.1	270	210	0.06	0.0589	50	50
29.2-36-101.2	270	210	0.06	0.0589	50	50
29.2-CSc			0.06	0.0589	50	50
38-36-251	99	98	0.027	0.018	50	50
38-36-252	99	99	0.027	0.027	100	100

a - EPN 25.2-CS is the combined stack for heaters 25.2-36-51 and 25.2-36-52.
b - EPN 26-CS is the combined stack for heaters 26.1-36-1, 26.1-36-1.1, 26.1-36-2 and 26.1-36-2.1
c - EPN 29.2-CS is the combined stack for heaters 29.2-36-101.1 and 29.2-36-101.2

The permit holder shall install and operate totalizing fuel flow meter to measure the gas fuel usage for each heater and fuel usage for each shall be recorded monthly. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 5 percent.

Quality assured (or valid) data must be generated when the heater is operating. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the heater operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

The fuel gas shall be sampled every 6 months to determine the net heating value to each unit. **(12/14)**

14. Coke dust emissions from the coke pit, coke crusher, coke conveying, coke storage, and coke product loading shall be controlled by adding additional water, as necessary, to minimize particulate emissions.

15. The Tail Gas Incinerator (TGI) Stacks (EPN 28.2-36-2 and EPN 39.1-95-118) shall comply with the following:

    A. There shall be no visible emissions from EPN 28.2-36-2 or EPN 39.1-95-118 exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method 22.

    B. The in-stack concentration of the following pollutants in each TGI stack shall not exceed the following:

Pollutant	Emission Limitation (hourly average)	Basis
Sulfur dioxide (SO_2)	250 ppmv	Dry and zero excess air
H_2S	10 ppmv	Dry and zero excess air
Carbon monoxide (CO)	100 ppmv	Dry and zero excess air
NO_x	0.06 lb/MMBtu	HHV

(PSD) (**8/07)**

Sulfur Recovery Units

16. The sulfur recovery efficiency of Sulfur Recovery Units (SRUs) 28.2 and 39.1 shall meet the following requirements:

    A. The sulfur recovery efficiency from the SRUs shall be at least 99.8 percent.

    B. The actual sulfur recovery efficiency shall be determined by the following calculation:

$$\text{Efficiency} = \frac{(\text{S recovered})*(100)}{(\text{S recovered}) + (\text{S incinerators})}$$

Where:

Efficiency	=	sulfur recovery efficiency, percent
S recovered	=	(elemental sulfur in pits), lb/hr
S incinerators	=	sulfur emitted from TGI stacks (EPN 28.2-36-2 and EPN 39.1-95-118), lb/hr

C. The average sulfur recovery efficiency shall be demonstrated for each 24-hour period by a mass balance calculation using data obtained from the incinerator stack SO_2 monitors, sulfur production records, and other process flow data. The daily sulfur recovery efficiencies shall be calculated on a monthly basis. Records and copies of the compliance calculations shall be maintained on site. (PSD) **(8/07)**

17. Vapors from the sulfur pits, sulfur tank, and sulfur loading operations shall be routed to the TGIs or routed to the front end of the Claus Reactors. (PSD) **(8/07)**

18. Detailed sulfur load shedding plans shall be developed and maintained at the site. **(8/07)**

19. The permit holder shall maintain reserve sulfur recovery capacity as follows:

A. The sulfur recovery complex consisting of SRUs 28 and 39.1 shall be operated and maintained such that there is no period greater than 24 hours where at least 135 long tons per day (LTPD) of sulfur recovery capacity is held in reserve and immediately available, except as noted below. **(8/18)**

Operation for greater than 24 hours without the reserve sulfur recovery capacity is only allowed during periods of maintenance and repair of sulfur recovery equipment. The TCEQ Houston Regional Office shall be informed prior to all such periods of operation.

B. The reserve sulfur recovery capacity of SRUs 28 and 39.1 shall be determined as follows:

Reserve Sulfur Recovery Capacity (LTPD) = S capacity (LTPD) - S recovered (LTPD)

Where: S capacity = total available sulfur recovery capacity of SRUs 28 and 39.1

S recovered = elemental sulfur in pits

The reserve sulfur recovery capacity shall be calculated and provided to representatives of the TCEQ or any local air pollution control program having jurisdiction upon request. (PSD)

C. The total sulfur recovered from the sulfur recovery complex shall not exceed 840 LTPD. **(8/18)**

Initial and Periodic Stack Sampling

20. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Distillate Hydrodesulfurization Unit Heaters (EPN 25.2-CS), Cat Feed Hydrotreater Unit Charge Heaters and Recycle Heaters (EPN 26-CS), SRU TGIs (EPNs 28.2-36-2 and 39.1-95-118), Vacuum Unit Heater (EPN 29.1-36-001), Delayed Coker Heaters A and B (EPN 29.2-CS), Reactor Feed Furnace (EPN 38-36-251), Stripper Reboiler (EPN 38-36-252), and the Unit 27 FCCU Regenerator (EPN 27.1-36-RE).

For Heaters with combined stacks (EPNs 25.2-CS, 26-CS, and 29.2-CS), compliance testing shall be performed on the combined stack flow unless testing of individual heaters is specifically requested by the TCEQ Executive Director. When testing the combined stack flows, compliance with allowable rates shall be evaluated by adding up the allowable rates for the various heaters contributing to the combined stack flow.

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

A. The TCEQ Houston Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

(1) Date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

(5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or U.S. Environmental Protection Agency (EPA) sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Houston Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for NSPS testing which must have the EPA approval shall be submitted to the TCEQ Houston Regional Director.

B. Air contaminants emitted from the EPNs to be tested for include (but are not limited to) the following:

EPNs 25.2-CS, 26-CS, 29.1-36-001, 29.2-CS, 38-36-251, and 38-36-252: NO_x and CO.

EPN 28.2-36-2: VOC, NO_x, CO, SO_2, PM, H_2SO_4, and H_2S.

EPN 39.1-95-118: VOC, NO_x, CO, SO_2, PM, H_2SO_4, and H_2S

EPN 27.1-36-RE: VOC, NO_x, CO, SO_2, PM, H_2SO_4, and NH_3

The operator shall demonstrate compliance with incinerator units (EPN 28.2-36-2 and 39.1-95-118) PM emissions using EPA's Method 5/202 – Dry Impinger Method for Determining Condensable Particulate Emissions from Stationary Sources. If the operator cannot use EPA Method 5/202 due to sampling equipment failure despite best efforts, then the operator shall demonstrate compliance with incinerator units (EPN 28.2-36-2 and 39.1-95-118) PM emissions using EPA's Method 5F – Determination of Non-

sulfate Particulate Matter Emissions from Stationary Sources. The method used shall be used to determine front and back half PM emissions in compliance with paragraph B of this condition. The TCEQ Houston Regional Director has the discretion to approve or disapprove any deviation in testing method as described in paragraph A of this condition. **(01/18)**

C. Sampling of each of the new and modified facilities listed above shall occur within 180 days after start-up of each individual facility and at such other times as may be required by the Executive Director of the TCEQ. Sampling of EPN 28.2-36-2 shall take place within 120 days of the commencement of O_2 enrichment operations. Requests to reschedule sampling shall be subject to approval by the Executive Director of the TCEQ. Requests to reschedule any sampling requirements shall be submitted to the TCEQ Houston Regional Office. Sampling of EPN 39.1-95-118 shall take place within 120 days of the commencement of O_2 enrichment operations. This sampling shall take the place of the 5-year testing required in Special Condition No. 22 of EPN 39.1-95-118 in 2019. The 5-year testing schedule shall resume after this sampling. **(11/19)**

D. The units shall operate at maximum production or firing rates (as applicable) during stack emission testing. Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the units or facilities are unable to operate at maximum production or firing rates (as applicable) during testing, the units are subject to interim production rate limits, and additional stack testing requirements to authorize operation at higher production rates, as outlined in Special Condition No. 21. Such subsequent stack testing shall be subject to the same pretest notification, pretest meeting, and sampling report submittal requirements specified in subparts A and F of this condition.

E. If the post-stack test hourly average firing rates for the Reactor Feed Furnace (EPN 38-36-251) and Stripper Reboiler (EPN 38-36-252) exceed the rate maintained during the stack test, a stack test at the higher firing rate shall be performed on the unit within 120 days. The stack test may be waived by the TCEQ Houston Regional Office Air Section Manager.

F. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Houston Regional Office.

One copy to the Director of Environmental Health, Brazoria County Health Department, Angleton. **(12/10)**

21. In the event that the monthly average firing rates of the Unit 25.2 Distillate Hydrodesulfurization Unit, Unit 29.1 Vacuum Unit, Unit 29.2 Coker Unit, or the monthly average production rate of the Cat Feed Hydrotreater Unit, or Unit 28 Sulfur Recovery Complex will exceed by more than 10 percent the rates demonstrated during previous stack testing, the company shall provide prior written notice to the TCEQ Houston Regional Office, and emission sources for the appropriate units shall be subject to additional sampling pursuant to Special Condition No. 20 to demonstrate continuing compliance. The additional sampling for a unit shall be conducted within 90 days of increasing the monthly average production rate more than 10 percent above the rates demonstrated during previous stack testing. Records shall be kept of the monthly production rates of these units along with the corresponding 12-month rolling average. (PSD) **(04/20)**

22. Stack sampling of the sources specified in Special Condition No. 20 shall be repeated every five years after the initial sampling. Such testing shall be conducted as specified in Special Condition No. 20.A, B, D, E, and F. **(12/10)**

On-Going Monitoring Requirements

23. The holder of this permit shall install, calibrate, and maintain a CEMS to measure and record the in-stack concentrations of the following compounds from the following:

    A. Unit 9 Crude Heater (EPN 9-36-4): NO_x and CO.

    B. Heavy Oil Cracking Unit Regenerator Stack (EPN 27.1 36 RE): NO_x, SO_2, CO, NH_3, and O_2.

    C. TGI Stacks (EPNs 28.2-36-2 and 39.1-95-118): SO_2 and O_2.

    D. Unit 25.1 Crude Charge Heater (EPN 25.1-36-1): NO_x, CO, and NH_3. The new NH_3 continuous monitoring requirement for the unit 25.1 Crude Charge Heater shall be properly installed and operating by December 31, 2011.

    E. Delayed Coker Heaters A and B (EPN 29.2-CS): NO_x and CO. **(12/14)**

    The continuous monitoring requirement of NH_3 at the Heavy Oil Cracking Unit and the Crude Charge Heater may be satisfied by use of dual NO_x CEMs before and after the NH_3 injection point compliant with the mass balance approach for ammonia monitoring in 30 TAC 117.8130. The NH_3 stack sampling required by the rule shall be conducted in compliance with the pretest notification and reporting requirements of Special Condition No. 20. **(12/10)**

    During the inlet or outlet NO_x monitoring system maintenance or downtime period, the continuous monitoring requirement of NH_3 at the Heavy Oil Cracking Unit and the Crude Charge Heater may be satisfied by use of stain tubes in compliance with ammonia monitoring procedures in 30 TAC 117.8130(3). **(10/19)**

24. All CEMS monitoring systems shall meet the following requirements:

    A. Each CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data and reporting requirements specified in the applicable Performance Specifications, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, the TCEQ Office of Air, Air Permits Division in Austin shall be contacted to determine the requirements to be met.

    B. Each system shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amount specified in 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span are not required on weekends and plant holidays if instrument technicians are not normally scheduled to work on these days, unless the zero and span are required by a subpart of the NSPS or NESHAPS, in which case zero and span checks shall be done daily without exception.

    A relative accuracy test audit (RATA) shall be performed on each CEMS upon initial installation. Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1, with the following exception: a cylinder gas audit (CGA) shall be conducted in each successive quarter and subsequent RATA shall not be required once every four quarters, but should be conducted during required stack sampling. An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

The CGAs of CEMS with exceedances of ±15 percent accuracy shall be reported to the TCEQ Houston Regional Director, and necessary corrective action taken. The TCEQ Houston Regional Director shall be notified as soon as possible after the discovery of any CEMS malfunction which is expected to result in more than 24 hours of lost data. At the discretion of the TCEQ Houston Regional Director, the permit holder may be required to take supplemental stack concentration measurements.

C. Data covering periods of CEMS breakdowns, repairs, calibration, sample line purges, checks, and zero and span adjustments shall not be included in the computed data averages.

D. All monitoring data and quality-assurance data shall be maintained by the permit holder for a period of two years and shall be made available to the Executive Director of the TCEQ or designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. The monitoring data shall be reduced to average hourly concentrations at least once every day, using a minimum of one data point every 15 minutes. The individual concentrations shall be converted to lbs/hr at least once every day and cumulative tons per year (tpy) at least once every month. Compliance with the annual allowable contained on the MAERT shall be based on a 12-month rolling average. **(12/10)**

25. TGI operation and H_2S emissions shall be monitored and maintained in accordance with A or B below.

A. The TGI firebox exit temperatures and O_2 concentrations shall be continuously monitored and recorded. The temperature measurement device shall reduce the temperature readings to an averaging period of 15 minutes or less and record it at that frequency. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

Quality-assured (or valid) data must be generated when waste gas is being fed to the TGI except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the TGI operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded.

The TGI shall be operated with not less than the O_2 concentration maintained during the last satisfactory stack test performed in accordance with Special Condition No. 20. The firebox chamber 15-minute average temperature shall be maintained above the hourly average temperature maintained during the last satisfactory stack test performed in accordance with Special Condition No. 20. **(03/21)**

B. The permit holder shall operate a continuous emissions monitoring system (CEMS) to monitor H_2S concentrations and emission rates. The CEMS shall meet the requirements of Special Condition No. 24. The hourly average H_2S exhaust concentration shall be maintained at less than 10.0 ppmv (dry, corrected to 0 percent O_2) when monitoring the incinerator this way. (PSD) **(8/07)**

26. The hydrogen concentration in the tailgas treatment unit (TGTU) absorber overhead streams and the process feed and fuel flow rates (excluding eductors) to the tailgas incinerators (TGI) shall be continuously monitored and recorded. The flows shall be recorded at least every 15 minutes and

the hourly average flow rates shall be recorded. Each flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, or at least annually, whichever is more frequent, and shall be accurate to within 2 percent of span or 5 percent of the design value.

Up to 5 percent invalid monitoring data on a rolling 12-month basis is acceptable provided it is only generated when the monitor is broken down, out-of-control (producing inaccurate data), being repaired, having maintenance performed, or being calibrated. The data availability shall be calculated as the total SRU operating minutes for which quality assured data was recorded divided by the SRU operating minutes. The measurements missed shall be estimated using engineering judgement and the methods used recorded. (PSD) **(8/07)**

Cooling Tower

27. Cooling tower water shall be monitored monthly for VOC leakage from heat exchangers in accordance with the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or another air stripping method approved by the TCEQ Executive Director.

    Equipment shall be maintained so as to minimize VOC emissions into the cooling water. Cooling water VOC concentrations above 0.08 part per million by weight (ppmw) indicate faulty equipment. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs.

    Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.50 ppmw. Operations with VOC concentrations above 0.50 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded. **(11/04)**

28. Cooling tower drift eliminators shall be maintained and inspected at least annually with a record of the inspection and all repairs. Compliance with the MAERT particulate matter limit shall be determined by assuming total dissolved solids are emitted in the design drift based on maximum cooling water circulation. Cooling water shall be sampled once a week for total dissolved solids (TDS) and once a day for conductivity. Dissolved solids in the cooling water drift are considered to be emitted as PM. The data shall result from collection of water samples from the cooling tower feed water and represent the water being cooled in the tower. Water samples should be capped upon collection, and transferred to a laboratory area for analysis. The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, and SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. The analysis method for Conductivity shall be ASTM D1125-95A and SM2510 B. Use of an alternative method shall be approved by the TCEQ Regional Director prior to its implementation.

    No later than 120 days after the date of permit issuance, the holder of this permit shall submit a cooling tower particulate matter testing protocol to the TCEQ Permit Division for review and approval, with a copy to the Regional Office. The particulate matter testing protocol must address confirmation of the represented drift and particulate size distributions represented in the permit application; and establish appropriate inspection protocols, parameter monitoring or sampling to assure ongoing compliance with the particulate matter fractions authorized. The testing protocol shall be revised as requested and testing conducted within 90 days of approval of the protocol. No later than 90 days after completion of the cooling tower particulate matter tests in accordance with the approved protocol, the holder of this permit shall submit the results to the TCEQ. If necessary

based on the submitted results, the holder of this permit shall submit a permit amendment/or alteration to revise the cooling tower particulate matter emission limits and monitoring parameters. **(12/10)**

Loading

29. The permit holder shall maintain and update a monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids at or below ambient temperatures. Emissions shall be calculated using the methods used to determine the MAERT emission rates in the amendment application, PI-1 dated April 28, 2020. **(09/20)**

30. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections. **(09/20)**

31. In order to ensure 95% capture efficiency during railcar loading, the following requirements must be met: **(09/20)**

    A. Hard-piped or bolted connections, and/or dry lock design hard piped loading arms shall be used for all pressurized loading operations.

    B. Each railcar to be loaded shall be designed to handle a pressure of 15 psi gauge or greater.

    C. Each railcar to be loaded shall not be equipped with a spew gauge.

Fugitives

Piping, Valves, Pumps, and Compressors in Natural Gas Service and/or Ultra Heavy Liquid Service - 28PI

32. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(12/21)**

    A. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

    B. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.

    C. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Non-accessible valves, as defined in Title 30 TAC Chapter 115, shall be identified in a list to be made available upon request.

D. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter.

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.

E. All piping components shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

F. Damaged or leaking valves, connectors, compressor seals, and pump seals found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. At the discretion of the TCEQ Executive Director or designated representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.

G. Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ) upon request.

33. Fugitive components in Pipeline Quality Natural Gas Service with 3% VOC or less by weight shall be exempted from the requirements of Special Condition Nos. 35 and 37. **(7/16)**

34. The following requirements apply to valves, connectors, flanges, and pumps in heavy liquid service identified in the amendment applications (Form PI-1 submitted September 23, 2021 and June 19, 2013, as updated) for which 97% control credit for valves, connectors, flanges and 93% control credit for pumps is claimed. These components shall be subject to the requirements of Special Conditions Nos. 35 and 37, with the following changes: **(12/21)**

A. These components shall not be exempt from instrumental monitoring for having a vapor pressure below 0.044 psia.

B. Monitoring shall be performed in accordance with Special Condition No. 35.F.

C. Valves, flanges, connectors, and pumps not monitored shall be identified in a list to be made available to the TCEQ upon request. These components may be identified by one or more of the methods described in Special Condition No. 35.A. The number of unmonitored valves and pumps shall not exceed the values identified in the permit amendment application (Form PI-1 submitted September 23, 2021 and June 19, 2013, as updated).

Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC Intensive Directed Maintenance – 28MID

35. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(08/18)**

A. The requirements of paragraphs F and G shall not apply (1) where the volatile organic compounds (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5

kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

The exempted components may be identified by one or more of the following methods:

- piping and instrumentation diagram (PID);
- a written or electronic database or electronic file;
- color coding;
- a form of weatherproof identification; or
- designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be

monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

An approved gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15

days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I) or 500 pounds, whichever is greater, the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination. **(12/21)**

I. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor valves.

Vp = the percentage of leaking valves for the monitoring period.

K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or

an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

28CNTA (Connectors Inspected Annually)

36. In addition to the weekly physical inspection required by Item E of Special Condition No. 35, all connectors in gas\vapor and light liquid service, with the exception of those specified in Special Condition No. 37, shall be monitored annually with an approved gas analyzer in accordance with Items F thru K of Special Condition No. 35. Alternative monitoring frequency schedules ("skip options") of Title 40 Code of Federal Regulations Part 63, Subpart H, National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks, may be used in lieu of the monitoring frequency required by this permit condition. Compliance with this condition does not assure compliance with requirements of applicable state or federal regulation and does not constitute approval of alternative standards for these regulations.

28CNTQ (Connectors Inspected Quarterly)

37. In addition to the weekly physical inspection required by Item E of Special Condition No. 35, all accessible connectors in gas\vapor and light liquid service in the refinery tank farms (EPNs 68.1-0-0 and 68.2-0-2) and in other units identified in the amendment applications (PI-1 Form dated September 23, 2021 and June 19, 2013) for which 97% control credit is claimed shall be monitored quarterly with an approved gas analyzer in accordance with Items F thru H and K of Special Condition 35. **(12/21)**

    A. Allowance for reduced monitoring frequencies.

        (1) The frequency of monitoring may be reduced from quarterly to semiannually if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

        (2) The frequency of monitoring may be reduced from semiannually to annually if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

    B. If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

$$(Cl + Cs) \times 100/Ct = Cp$$

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

38. The following requirements apply to fugitive emissions from process drains: **(7/16)**

    A. All accessible process drains in gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer. The monitoring shall be performed in accordance with Items F and H through K of Special Condition No. 35, as described for valves.

    B. Monitoring of process drains shall be done at a leak threshold of 500 ppmv.

    C. All new and reworked process drains shall be designed in a manner that repairs to process drains may readily be performed and any water drain may readily be flushed.

    D. Damaged or leaking process drains found to be emitting VOC in excess of 500 parts per million by volume (ppmv) shall be tagged and flushed, replaced, or repaired. A damaged component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a drain would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking drains that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list as per Special Condition No. 35.H.

    E. Drains shall be monitored for leaks using an approved gas analyzer after 15 days of the components being returned to service but less than 30 days of it being returned to service.

Piping, Valves, Pumps, and Compressors in contact with H_2S and Ammonia – 28AVO

39. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(08/18)**

    A. Audio, olfactory, and visual checks for H_2S and ammonia leaks shall be made once per shift. **(12/21)**

    B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take at least one of the following actions:

        (1) Isolate the leak.

        (2) Commence repair or replacement of the leaking component.

        (3) Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

    Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the TCEQ upon request.

Prevention of Significant Deterioration (PSD)/Nonattainment

40. Total combined annual emissions of NO_x from the Sweet Crude Heater (EPN 9-36-4), Reformer Heater (EPN 35-36-1), Reformer Heater (EPN 14-36-3), Regenerator Exhaust (EPN 27.1-36-RE), SRU Incinerator Stack (EPN 28.2-36-2), Vacuum Unit Heater (EPN 29.1 36 001), Coker Heater A (EPN 29.2-36-CS), and Coker Heater B (EPN 29.2 36 CS), shall not exceed 910.47 tpy. In order to demonstrate compliance with this limit, the holder of this permit shall maintain records of the monthly NO_x emissions and the rolling 12-month average emissions for each of these emissions points. Such records shall be maintained for at least two years and made available to the

Executive Director or designated representative upon request. The NO_x emissions for these sources shall be determined as follows:

A. For emissions having NO_x emissions data from the CEMS, NO_x emissions shall be calculated from the CEMS data.

B. For heaters lacking CEMS data pursuant to paragraph A of this condition, but having fuel gas consumption monitoring data, NO_x emissions shall be calculated from the monitored fuel gas consumption, fuel gas heating value in lb/MMBtu, and the heater's NO_x emissions factor as determined by the most recent stack test performed within the last five years.

C. Where the data listed in paragraphs A and B of this condition is not available, the monthly NO_x emissions shall be calculated by multiplying the short-term permit allowable emission rate (lb/hr) for each source times the number of hours of operation in that month. **(5/01)**

Consent Decree (CD) H-05-0258 Special Conditions

41. The maximum allowable concentration of CO in the Heavy Oil Cracking Unit (HOC) Unit Regenerator Stack (EPN 27.1 36-RE) averaged over a one hour period is 500 parts per million by volume dry at 0 percent O_2. (CD H-05-0258) **(7/05)**

42. The sulfur recovery complex (Unit 28) is an affected facility under the EPA regulations in 40 CFR Part 60 (NSPS) and is subject to the requirements of Subpart A and Subpart J (40 CFR Part 60, Subparts A and J). (PSD) (CD H-05-0258) **(9/06)**

43. The HOC Unit Regenerator Stack (EPN 27.1-36-RE) is an affected facility under the EPA regulations in 40 CFR Part 60 on the NSPS and is subject to the requirements of Subpart A and Subpart J (40 CFR Part 60, Subparts A and J) for CO, sulfur dioxide, and particulate matter. (CD H-05-0258) **(9/06)**

44. The DEA Stripper Flare (EPN 28.1-61-9) and the Sour Water Stripper Flare (EPN 28.1-61-10) are affected facilities under the EPA regulations in 40 CFR Part 60 (NSPS) and are subject to the requirements of Subpart A and Subpart J (40 CFR 60, Subparts A and J) for sulfur dioxide. (CD-H-05-0258) **(12/23)**

45. The Expansion LP Flare (EPN 56-61-17), the Expansion HP Flare (EPN 56-61-16), and the VDU/CDU Flare (EPN 29-61-1) are affected facilities under the EPA regulations in 40 CFR Part 60 (NSPS) and are subject to the requirements of Subparts A and Ja (40 CFR 60, Subparts A and Ja) for sulfur dioxide. (CD-H-05-0258) **(12/23)**

46. The permit holder shall install, certify, calibrate, maintain, and operate all CEMs in accordance with the provisions of 40 CFR 60.13 that are applicable to CEMs (excluding those provisions applicable to Continuous Opacity Monitoring Systems) and Part 60 Appendices A and F, and the applicable performance specification test of 40 CFR 60 Appendix B. Unless Appendix F is otherwise required by the NSPS, state law or regulation, or a permit or approval, in lieu of the requirements of 40 CFR Part 60, Appendix F §§ 5.1.1, 5.1.3, and 5.1.4, the permit holder must conduct either a Relative Accuracy Audit (RAA) or a Relative Accuracy Audit (RATA) on each CEMS at least once every three years. The owner or operator must also conduct Cylinder Gas Audits (CGA) each calendar quarter during which a RAA or a RATA is not performed. (CD-H-05-0258) **(12/23)**

The following sources are subject to the requirements of this condition:

Source Description	Emission Point Number (EPN)
FCC Regenerator Exhaust	27.1-36-RE
Unit 9 Crude Unit Heater	9-36-4
Unit 25.1 Crude Unit Heater	25.1-36-1
ARDS Charge Heaters No. 1 and No. 2 Recycle Heaters No. 1 and No. 2	26-CS
Vacuum Unit Heater	29.1-36-001
Coker Heater A and B	29.2-36-CS

47. The permit holder shall install, certify, calibrate, maintain, and operate all CEMS in accordance with the provisions of 40 CFR 60.13 that are applicable to CEMS (excluding those provisions applicable only to Continuous Opacity Monitoring Systems) and Part 60 Appendices A and F, and the applicable performance specification test of 40 CFR Part 60 Appendix B. One RATA is required at least every four calendar quarters, except in the case where the affected facility is off-line (does not operate) in the fourth calendar quarter since the quarter of the previous RATA. In that case, the RATA shall be performed in the quarter in which the unit recommenced operation. Also, cylinder gas audits are not required for calendar quarters in which the affected facility does not operate. (CD-H-05-0258) **(12/23)**

The following sources are subject to the requirements of this condition:

Source Description	Emission Point Number (EPN)
Unit 28 Incinerator Stack	28.2-36-2
Unit 39.1 Incinerator Stack	39.1-95-118

48. The permit holder shall not operate the Unit 25.1 Heater (EPN 25.1-36-1) at a maximum firing capacity above 467 million BTU/hr (HHV) and a NO_x emission factor above 0.037 lb/MMBTU on an averaging period of rolling 365-day. (CD-H-05-0258) **(07/11)**

49. The maximum allowable concentration of SO_2 in the FCC Regenerator Exhaust Stack (EPN 27.1 36-RE) shall not exceed 25 ppmvd on a 365-day rolling average basis at 0% oxygen and 50 ppmvd on a 7-day rolling average basis at 0% oxygen. (CD H-05-0258) **(08/11)**

50. The maximum allowable concentration of NO_x in the FCC Regenerator Exhaust Stack (EPN 27.1 36-RE) shall not exceed 20 ppmvd on a 365-day rolling average basis at 0% oxygen and 40 ppmvd on a 7-day rolling average basis at 0% oxygen. (CD H-05-0258) **(12/11)**

51. Fuel oil shall not be burned in any existing combustion source listed in the MAERT. Fuel oil shall mean any liquid fossil fuel with a sulfur content greater than 0.05% by weight. (CD-H-05-0258) **(01/19)**

52. Combustion sources listed in Special Condition No. 13 and FCC Regenerator Exhaust (27.1-36-RE) are affected facilities under the EPA regulations in 40 CFR Part 60 (NSPS) and are subject to

the requirements of Subpart A and Subpart J (40 CFR Part 60, Subparts A and J). (CD-H-05-0258) **(01/19)**

53. All heaters and boilers are affected facilities under the EPA regulations in 40 CFR Part 60 (NSPS) and are subject to the requirements of Subpart A and J (40 CFR Part 60, Subparts A and J) for fuel gas combustion devices. (CD-H-05-0258) **(12/23)**

The following sources are subject to the requirements of this condition:

Source Description	Emission Point Number (EPN)
Unit 9 Crude Charge Heater	9-36-4
Unit 25.1 Crude Charge Heater	25.1-36-1
ARDS Charge Heaters No. 1 and No. 2 Recycle Heaters No. 1 and No. 2	26-CS
Vacuum Unit Heater	29.1-36-001
Coker Heater A and B	29.2-36-CS

54. The permit holder shall investigate the causes of Acid Gas Flaring incidents, take reasonable steps to correct the conditions that have cause or contributed to Acid Gas Flaring Incidents, and minimize Acid Gas flaring Incidents. **(05/18)**

A. For this condition, “Acid Gas Flaring Device” shall mean any device that is used for the purpose of combusting Acid Gas or Sour Water Stripper Gas, except facilities in which gases are combusted for purposes of sulfur or sulfuric acid production.

B. For this condition, Acid Gas Flaring Incident shall mean continuous or intermittent combustion of Acid Gas or Sour Water Stripper Gas at an Acid Gas Flaring Device that results in the emission of sulfur dioxide equal to, or greater than, five hundred (500) pounds in a twenty-four (24) hour period; provided, however, that if five hundred (500) pounds or more of sulfur dioxide have been emitted in a twenty-four (24) hour period and flaring continues into subsequent, contiguous, non-overlapping twenty-four (24) hour period(s), each period of which results in emissions equal to, or in excess of five hundred (500) pounds of sulfur dioxide, then only one Acid Gas Flaring Incident shall have occurred. Subsequent, contiguous, non-overlapping time periods shall be measured from the initial commencement of flaring within the Acid Gas Flaring incident.

C. For this condition, the rate of sulfur dioxide emissions resulting from Acid Gas Flaring will be expressed in terms of pounds per hours, and will be calculated using the following formula, with the result rounded to one decimal point:

$$ER = [FR][Conc H_2S][0.169]$$

For this condition, the quantity of SO_2 emissions resulting from Acid Gas Flaring will be calculated using the following formula, with the result rounded to one decimal point:

$$\text{Tons of } SO_2 = [FR][TD][Conc H_2S][8.44 \times 10\text{-}5]$$

Where:

ER= Emission Rate in pounds of SO_2 per hour

FR= Average Flow Rate to Flaring Devices during Flaring, in standard cubic feet per hour

TD= Total Duration of Flaring in hours

ConcH_2S= Average Concentration of Hydrogen Sulfide in gas during Flaring (or immediately prior to Flaring if all gas is being flared) expressed as a volume fraction (scf H_2S/scf gas)

8.44×10^{-5}= [lb mole H_2S/379 scf H_2S][64 lbs SO_2/lb mole H_2S][Ton/2000 lbs]

0.169 = [lb mole H_2S/379 scf H_2S][1.0 lb mole H_2S][64 lb SO_2/1.0 mole SO_2]

Standard conditions: 60 degrees F; 14.7 lbforce/sq.in. absolute.

D. For this condition, the flow of gas to the Acid Gas Flaring Devices will be as measured by the relevant flow meter or reliable flow estimation parameters. Hydrogen sulfide concentration (ConcH_2S) will be determined from the Sulfur Recovery Plant feed gas analyzer, from knowledge of the sulfur content of the process gas being flared, by direct measurement by Tutwiler or draeger tube analysis or by any other method approved by the Air Permits Division. If any of these data points is unavailable or inaccurate, the missing data points will be estimated according to best engineering judgment. The report will include the data used in the calculation and an explanation of the basis for any estimates of missing data points.

E. The facility shall take, as expeditiously as practicable, such interim and/or long-term corrective actions, if any, as are consistent with good engineering practice to minimize the likelihood of a recurrence of the Root Cause and all contributing causes of the Acid Gas flaring incident(s). For this condition, “Root Cause” shall mean the primary cause(s) of an Acid Gas flaring incident(s) as determined through a process of investigation that includes the following information:

(1) The date and time that the Acid Gas Incident started and ended. To the extent that the Acid Gas Flaring Incident involved multiple releases either within a 24-hour period or within subsequent, contiguous, non-overlapping 24-hour periods, the start and end dates and times of each release shall be included;

(2) An estimate of the quantity of sulfur dioxide that was emitted and the calculations that were used to determine that quantity;

(3) The steps, if any, that the owner or operator took to limit the duration or quantity of sulfur dioxide emissions associated with the Acid Gas Flaring Incident;

(4) A detailed analysis that sets forth the Root Case and all contributing causes of the Acid Gas Flaring Incident, to the extent determinable; and

(5) An analysis of the any available measures to reduce the likelihood of a recurrence of an Acid Gas Flaring or Tail Gas Incident resulting from the same Root Case or contributing causes in the future. The analysis will discuss the alternatives, if any, that are available, the probable effectiveness and costs of the alternatives, and whether an outside consultant should be retained to assist in the analysis. Possible design, operation and maintenance changes will be evaluated. If the owner or operator concludes that corrective action is required, the report will include a description of the actions taken, or, if not already completed, a schedule for implementation for corrective action. If the owner or operator concludes that corrective action is not required, the report will explain the basis for that conclusion.

F. The owner or operator shall take, as expeditiously as practicable, interim or long-term corrective actions, consistent with good engineering practice, to minimize the likelihood of a recurrence of the Root Cause and all contributing causes of the Acid Gas flaring incident(s).

G. The owner or operator shall maintain records of incidents and the resulting actions taken as required by subsection (e) of this condition.

H. This condition does not authorize emissions events, nor does it exempt from or substitute for compliance with the requirements of 30 TAC Chapter 101, Subchapter F.

Demonstration of Compliance with Emission Limitations

55. The permit holder shall calculate emissions from each emission point on the MAERT monthly to show compliance with the rolling 12-month annual emission limits. Piping fugitive emission points are exempt from this requirement. Individual emission points which have allowable emissions on the MAERT of less than 1 TPY are exempt from this requirement. **(8/07)**

56. The increased firing rates for the coker heaters authorized by the amendment, PI-1 dated July 30, 2014, were determined not to be subject to major new source review by identifying projected actual emission rates for the facilities potentially affected by the project (EPN 29.2-CS). Actual emissions from those facilities shall be monitored, recorded and reports made in accordance 30 TAC § 116.127 for the time period specified in 30 TAC §116.127(b)(1). **(12/14)**

Coke Drum Operation

57. The following operational restrictions apply to the 29.2 Delayed Coker Unit: **(7/16)**

A. No more than one coke drum may be depressured to atmosphere in an hour and no more than one drum opening may occur in an hour.

B. No more than 1095 drum cycles (i.e., drum depressurizations to atmosphere and drum openings) may occur in a year.

C. Prior to depressuring a drum to atmosphere, the drum shall be routed to a closed blowdown system which recovers and directs the gas flows to the coker fractionator or to the fuel gas system.

D. The coke drums shall not be depressured and drained to atmosphere until the drum reaches a top or blowdown pressure of 2.5 psig or less based on a 5 minute average. **(12/21)**

E. Records of the coke drum depressuring shall be maintained to verify compliance with this condition.

Offsets

58. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H. **(09/20)**

A. The permit holder shall use 17.4 tons per year (tpy) of VOC credits to offset the 14.46 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.2 to 1.0.

B. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.

59. The following sources and/or activities are authorized under a Permit by Rule (PBR) by 30 TAC Chapter 106, or Pollution Control Project Standard Permit (PCP SP) by §116.117. These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(09/20)**

Authorization	Source or Activity
PCP SP 118459	Pollution Control Project authorized installation of ultra-low NOx burners from Crude Charge Heater (EPN 9-36-4) resulting in decrease of emissions for both heater and fugitives (EPN 9-0-0)

Date: December 8, 2023

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 8, 2023

MS KATHERINE MARENO
ENVIRONMENTAL DIRECTOR
PHILLIPS 66 COMPANY
PO BOX 866
SWEENY TX 77480-0866

Re: Permit Alteration
Permit Number: 5920A
Expiration Date: February 11, 2029
Phillips 66 Company
Sweeny Refinery
Sweeny, Brazoria County
Regulated Entity Number: RN101619179
Customer Reference Number: CN604065912
Associated Permit Numbers: N292 and PSDTX103M4

Dear Ms. Mareno:

Phillips 66 Company has requested alteration of the conditions of the above-referenced permit.

In accordance with Title 30 Texas Administrative Code §116.116(c), Permit Number 5920A is altered. Enclosed are the new general conditions and altered special conditions. Please attach these to your permit.

All preconstruction authorizations (including authorization for emissions of greenhouse gases, if applicable) should be obtained prior to start of construction.

If you need further information or have any questions, please contact Ms. Rachel Vo at (512) 239-3402 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Re: Permit Number: 5920A

Sincerely,

Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Director, Environmental Health, Brazoria County Health Department, Angleton
Air Section Manager, Region 12 - Houston
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 364113

UNIT 15 DEBOTTLENECK PROJECT

Permit Nos.: 49140, 5920A, 30513

PHILLIPS 66 COMPANY

Sweeny Refinery

Old Ocean | Brazoria County | Texas

CN604065912
RN101619179

RPS Project No. Project #212570
September 2021

rpsgroup.com

UNIT 15 DEBOTTLENECK PROJECT
PERMIT NO.: PERMIT NOS.: 49140, 5920A, 30513

PHILLIPS 66 COMPANY

SWEENY REFINERY
Old Ocean | Brazoria County | Texas

CN604065912
RN101619179

Prepared by:

RPS

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Prepared for:

PHILLIPS 66 COMPANY

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Principal Environmental Consultant

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PROFESSIONAL ENGINEER CERTIFICATION

I, Robin L. Patrick, a registered professional engineer in the State of Texas, Registration No. 115948, certify that the enclosed information related to the amendment of Air Quality Permit Nos. 49140, 5920A, and 30513 for the Phillips 66 Company's Sweeny Refinery has been completed under my direction.

Robin L Patrick
Robin L. Patrick, P.E.
RPS
TBPE# 1298

9/17/21
Date

STATE OF TEXAS
ROBIN L. PATRICK
115948
LICENSED
PROFESSIONAL ENGINEER

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1 INTRODUCTION

Phillips 66 Company (Phillips 66) owns and operates the Sweeny Refinery on Highway 35 at Farm-to-Market Road 524 near Old Ocean, Texas. The refinery processes crude oil into products including gasoline, furnace oil, jet fuels, kerosene, petrochemicals, solvents, and blendstocks for liquid fuels. The majority of the refinery processes are authorized under Permit No. 5920A/PSDTX103M4/N292. Additional processes and units at this refinery operate under separate authorizations including New Source Review Permits, Standard Permits, and Permit by Rule (PBR) authorizations.

1.1 Purpose of this Application

This application seeks to amend Permit Nos. 49140, 5920A, and 30513 to authorize proposed changes to Units 11, 14, 15, 20, and 35 as detailed below (hereafter referred to has the “Project”). The primary purpose of the Project is to increase normal pentane (nC5) recovery in Unit 15 Depentanizer tower and thus reduce nC5 upgrade value losses and improve RVP for the blending stock.

1.1.1 UNIT 11 Hydrodesulfurization (HDS): Optimization Program

This project addresses the Unit 11 HDS charge system hydraulic bottleneck by installing a bypass with control loop for the HDS Heater which was designed to operate with excessive pressure drop. With the heater bypass in operation, the feed/effluent exchangers are expected to operate without bypass and achieve best heat recovery, which allows for a higher operating temperature in HDS Reactor and lower fuel gas consumption in hydrodesulfurization heater.

1.1.2 UNIT 14 Hydrodesulfurization (HDS): Reactor Preheat Improvement

The Unit 14 HDS Reactor Preheat Improvement Project improves the HDS reactor pre-heat by installing a new Feed/Effluent Exchanger in series with existing Feed/Effluent Exchangers. This project also improves Pre-fractionator Tower separation efficiency by replacing the inlet distributor and modifying the trays around the distributor. The Unit 14 HDS Reactor Preheat Improvement Project includes the following high-level scope items outlined below:

1. Install a new Feed to Effluent Exchanger in series with existing 41-028/A/B with full bypasses and proper valving which allow isolation of any single shell.
2. Pre-fractionator 95-006 feed distributor will be replaced and trays around the feed distributor will be modified.

1.1.3 Unit 15/20/35: Hydraulic Debottlenecking

The scope of the Unit 15/20/35 Hydraulic Debottlenecking Project includes the following:

1. Replace 2” portion of Unit 15 T-1 overhead yield piping and valves
2. Replace flowmeter element FE-432 with a new orifice plate and recalibrate range.
3. Install 3” tie-in downstream of DMV 432 assembly on the new 3” pipe
4. Install 3” tie-in on Unit 20 charge line at Unit 20 battery limits
5. Install a new 3” pipe (~400 ft) that connects tie-in #1 and tie-in 2.

This project involves new, modified, and affected emission sources. The table below summarizes the sources involved in the proposed Project and a description of the change(s) for each source:

Table 1: Project Source Summary

EPN	Source Name	Permit No.	New, Modified, or Affected?	Description of Change(s)
20-36-1	Pentane Reactor Furnace	49140	Modified	Increased firing rate from 30 million British thermal units per hour (MMBtu/hr) to 31.5 MMBtu/hr.
15-0-0	Unit 15 Fugitives	5920A	New/Modified	Additional components.
11-0-0	Unit 11 Piping Fugitives	30513	New/Modified	Additional components.
14-0-0	Unit 14 Piping Fugitives	30513	New/Modified	Additional components.
35-0-0	Unit 35 Fugitives	30513	New/Modified	Additional components.
68-95-6	Storage Tank 6	49140	Modified	This tank is currently authorized for 156,140 barrels per year (bbl/yr) of hexane and this Project seeks to authorize an emission cap with Tanks 6, 27, and 402 of 2,300,000 bbl/yr hexane (combined) at an elevated temperature. Max pump rate is also being revised.
68-95-27	Storage Tank 27	49140	Modified	This tank is currently authorized for 1,500,000 bbl/yr of hexane and this Project seeks to authorize an emission cap with Tanks 6, 27, and 402 of 2,300,000 bbl/yr hexane (combined) at an elevated temperature. Max pump rate is also being revised.
68-95-402	Storage Tank 402	7754A, moving to 49140	Modified	This tank is currently authorized for 714,286 bbl/yr of hexane and this Project seeks to authorize an emission cap with Tanks 6, 27, and 402 of 2,300,000 bbl/yr hexane (combined) at an elevated temperature. Max pump rate is also being revised.
68-95-31	Storage Tank 31	30513	Modified	This tank is currently authorized for 2,190,000 bbl/yr of benzene hydro fresh feed and this Project seeks to authorize 3,175,500 bbl/yr of benzene hydro fresh feed at an elevated bulk temperature. Max pump rate is also being revised.
68-95-205	Storage Tank 205	30513	Affected	This tank is currently authorized for 6,947,348 bbl/yr of heavy aromatics and this Project seeks to authorize 10,200,000 bbl/yr of heavy aromatics at an elevated bulk temperature. No PTE change is requested based on updated emission calculations and this tank is not modified per §116.10(9)(D)(ii).
68-95-409	Storage Tank 409	30513	Modified	This tank is currently authorized for 1,450,680 bb/yr of xylenes and this Project seeks to authorize an emission cap with Tanks 409, 410, 412, and 413 of 4,800,000 bbl/yr (combined) of petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised.

EPN	Source Name	Permit No.	New, Modified, or Affected?	Description of Change(s)
68-95-410	Storage Tank 410	30513	Modified	This tank is currently authorized for 3,678,301 bbl/yr of light reformate and this Project seeks to authorize an emission cap with Tanks 409, 410, 412, and 413 of 4,800,000 (combined) of petroleum fractions at an elevated bulk temperature.
68-95-412	Storage Tank 412	Std. Permit 146501 incorporating into 30513	Modified	This tank is currently authorized for 2,252,571 bll/yr of petroleum fractions and this Project seeks to authorize an emission cap with Tanks 409, 410, 412, and 413 of 4,800,000 bbl/yr (combined) of petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised.
68-95-413	Storage Tank 413	30513	Modified	This tank is currently authorized for 1,450,680 bblyr of xylene and this Project seeks to authorize an emission cap with Tanks 409, 410, 412, and 413 of 4,800,000 bbl/yr (combined) of petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised.
68-95-411	Storage Tank 411	30513	Modified	This tank is currently authorized for 1,655,538 bbl/yr of benzene/toluene extract and this Project seeks to authorize 1,550,000 bbl/yr of benzene/toluene extract at an elevated bulk temperature. Max pump rate is also being revised.
68-95-216	Storage Tank 216	30513	Affected	This tank is currently authorized for 433,305 bbl/yr of toluene and this Project seeks to authorize 800,000 bbl/yr of toluene at an elevated bulk temperature. No PTE change is requested based on updated emission calculations and this tank is not modified per §116.10(9)(D)(ii).
68-95-207	Storage Tank 207	PBR 25434 incorporating into 30513	Modified	This tank is currently authorized for 1,496,500 bbl/yr of LSR gasoline and this Project seeks to authorize 3,000,000 bbl/yr of RVP 9.0 LSR gasoline at an elevated bulk temperature. Note that the anticipated RVP for LSR gasoline will decrease due to this project because additional butanes are being extracted and sent to spherical storage.
68-95-85	Storage Tank 85	30513	Modified	This tank is currently authorized for 1,218,610 bbl/yr of cyclohexane and this Project seeks to authorize 1,218,610 bbl/yr of off-spec cyclohexane at an elevated bulk temperature. Max pump rate is also being revised.

EPN	Source Name	Permit No.	New, Modified, or Affected?	Description of Change(s)
68-95-86	Storage Tank 86	30513	Modified	This tank is currently authorized for 511,905 bbl/yr of benzene and this Project seeks to authorize 1,000,000 bbl/yr of benzene at an elevated bulk temperature. Max pump rate is also being revised.
68-95-87	Storage Tank 87	30513	Modified	This tank is currently authorized for 332,850 bbl/yr of benzene and this Project seeks to authorize 1,000,000 bbl/yr of benzene at an elevated bulk temperature. Max pump rate is also being revised.
68-95-66	Storage Tank 66	30513	Modified	This tank is currently authorized for 5,479,568 bbl/yr of sour naphtha and this Project seeks to authorize an emission cap with Tanks 66, 74, 75, 76, and 98 of 26,200,000 bbl/yr (combined) of light petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised. H_2S emissions are being quantified for addition to the MAERT.
68-95-74	Storage Tank 74	30513	Modified	This tank is currently authorized for 5,479,240 bbl/yr of sour naphtha and this Project seeks to authorize an emission cap with Tanks 66, 74, 75, 76, and 98 of 26,200,000 bbl/yr (combined) of light petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised. H_2S emissions are being quantified for addition to the MAERT.
68-95-75	Storage Tank 75	30513	Modified	This tank is currently authorized for 5,476,994 bbl/yr of sour naphtha and this Project seeks to authorize an emission cap with Tanks 66, 74, 75, 76, and 98 of 26,200,000 bbl/yr (combined) of light petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised. H_2S emissions are being quantified for addition to the MAERT.
68-95-76	Storage Tank 76	30513	Modified	This tank is currently authorized for 5,471,696 bbl/yr of sour naphtha and this Project seeks to authorize an emission cap with Tanks 66, 74, 75, 76, and 98 of 26,200,000 bbl/yr (combined) of light petroleum fractions at an elevated bulk temperature. Max pump rate is also being revised. H_2S emissions are being quantified for addition to the MAERT.

EPN	Source Name	Permit No.	New, Modified, or Affected?	Description of Change(s)
68-95-98	Storage Tank 98	5920A, moving to 30513	Modified	This tank is currently authorized for 9,822,700 bbl/yr of CAT gasoline and this Project seeks to authorize an emission cap with Tanks 66, 74, 75, 76, and 98 of 26,200,000 bbl/yr (combined) of light petroleum fractions at an elevated bulk temperature. H_2S emissions are being quantified for addition to the MAERT.
68-95-206	Storage Tank 206	30513	Affected	This tank is currently authorized for 1,941,199 bbl/yr of hydrotreated naphtha and this Project seeks to authorize 4,400,000 bbl/yr of gasoline blendstock at an elevated bulk temperature. Max pump rate is also being revised. No PTE change is requested based on updated emission calculations and this tank is not modified per §116.10(9)(D)(ii).
68-95-210	Storage Tank 210	30513	Affected	This tank is currently authorized for 1,751,765 of raffinate and this Project seeks to authorize 4,400,000 bbl/yr of gasoline blendstock at an elevated bulk temperature. Max pump rate is also being revised. No PTE change is requested based on updated emission calculations and this tank is not modified per §116.10(9)(D)(ii).

Storage tank fitting details have been updated for several tanks to reflect best available data. In addition to the sources above, pressurized spheres 68-95-17, 68-95-19, 68-95-20, and 68-95-88 will also be downstream sources affected by this project. These spheres are operated without routine emissions so there are no associated project emissions from them addressed in this application package.

A summary of proposed changes to the permit allowable emissions is presented as Table 2.

1.2 Application Organization

This application is organized into the following sections:

Section 1 presents background information about amendment scope and describes how this application is organized.

Section 2 includes TCEQ administrative forms and fee payment details.

Section 3 presents an area map and plot plan of the sources addressed in this application.

Section 4 contains a process description for the Project sources.

Section 5 describes the calculation methods used to estimate emissions from Project sources.

Section 6 includes a Best Available Control Technology (BACT) analysis.

Section 7 details Permit by Rule and Standard Permit authorizations to be incorporated into Permit Nos. 49140, 5920A, and 30513.

Section 8 addresses applicability of the federal Prevention of Significant Deterioration (PSD) and Nonattainment New Source Review (NNSR) permitting requirements.

Section 9	addresses each of the general application requirements for air permits and amendments as specified in 30 TAC § 116.111.
Appendix A	contains detailed emission calculations.
Appendix B	contains Federal Permitting Tables 1F and 2F.

Table 2: Project Allowable Emission Change Summary

Requested Emission Rates *(does not include incorporated PBRs, see Section 7)*																				
EPN	Source Name	Permit No.	VOC		Benzene		H_2S		NOx		CO		SO2		PM		PM_{10}		$PM_{2.5}$	
			(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
20-36-1	Pentane Reactor Furnace	49140	0.17	0.74					3.06	13.38	1.16	5.10	0.44	1.93	0.23	1.03	0.23	1.03	0.23	1.03
15-0-0	Unit 15 Fugitives	5920A	3.97	17.40	0.06	0.26														
11-0-0	Unit 11 Piping Fugitives	30513	2.39	10.46	0.03	0.12	0.01	0.02												
14-0-0	Unit 14 Piping Fugitives	30513	3.33	14.57	0.06	0.25	0.06	0.27												
35-0-0	Unit 35 Fugitives	30513	3.62	15.89	0.04	0.17														
68-95-6	Storage Tank 6	49140	0.53	3.59																
68-95-27	Storage Tank 27	49140	0.40																	
68-95-402	Storage Tank 402	49140	0.74																	
68-95-31	Storage Tank 31	30513	0.34	1.04																
68-95-205	Storage Tank 205	30513	0.78	1.92																
68-95-409	Storage Tank 409	30513	0.46	5.17																
68-95-410	Storage Tank 410	30513	0.75																	
68-95-412	Storage Tank 412	30513	0.45																	
68-95-413	Storage Tank 413	30513	0.53																	
68-95-411	Storage Tank 411	30513	0.29	0.73																
68-95-216	Storage Tank 216	30513	0.66	0.80																
68-95-207	Storage Tank 207	30513	1.73	4.50																
68-95-85	Storage Tank 85	30513	0.43	0.64																
68-95-86	Storage Tank 86	30513	0.31	0.48																
68-95-87	Storage Tank 87	30513	0.31	0.45																
68-95-66	Storage Tank 66	30513	1.43	17.02			0.14	1.98												
68-95-74	Storage Tank 74	30513	1.20				0.08													
68-95-75	Storage Tank 75	30513	1.30				0.13													
68-95-76	Storage Tank 76	30513	1.06				0.07													
68-95-98	Storage Tank 98	30513	2.57				0.14													
68-95-206	Storage Tank 206	30513	1.90	6.79																
68-95-210	Storage Tank 210	30513	3.66	13.13																

Currently Authorized Emission Rates																				
EPN	Source Name	Permit No.	VOC		Benzene		H_2S		NOx		CO		SO2		PM		PM_{10}		$PM_{2.5}$	
			(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
20-36-1	Pentane Reactor Furnace	49140	0.16	0.71					2.94	12.88	2.47	10.82	0.42	1.84	0.22	0.98	0.22	0.98	0.22	0.98
15-0-0	Unit 15 Fugitives	5920A	3.94	17.27	0.06	0.26														
11-0-0	Unit 11 Piping Fugitives	30513	2.38	10.43	0.03	0.12	0.01	0.02												
14-0-0	Unit 14 Piping Fugitives	30513	3.31	14.49	0.06	0.25	0.06	0.27												
35-0-0	Unit 35 Fugitives	30513	3.61	15.82	0.04	0.17														
68-95-6	Storage Tank 6	49140	0.38	1.16																
68-95-27	Storage Tank 27	49140	0.33	0.43																
68-95-402	Storage Tank 402	7754A	0.74	2.32																
68-95-31	Storage Tank 31	30513	0.34	0.80																
68-95-205	Heavy Aromatics Storage Tank	30513	0.78	1.92																
68-95-409	Xylene Storage Tank	30513	0.14	0.28																
68-95-410	Unit 7 Extractor Charge Tank	30513	0.75	2.35																
68-95-412	Petroleum Fractions Storage Tank 412	SP 146501	0.32	0.77																
68-95-413	Xylene Storage Tank	30513	0.14	0.27																
68-95-411	Unit 7 Extract Storage Tank	30513	0.31	0.59																
68-95-216	Toluene Storage Tank	30513	0.66	0.80																
68-95-207	Storage Tank 207	PBR 25434	1.63	5.95																
68-95-85	Benzene/Toluene Storage Tank	30513	0.17	0.64																
68-95-86	Benzene Storage Tank	30513	0.29	0.48																
68-95-87	Benzene Storage Tank	30513	0.29	0.44																
68-95-66	Sour Naphtha Storage Tank	30513	1.14	3.81																
68-95-74	Sour Naphtha Storage Tank	30513	1.20	4.05																
68-95-75	Sour Naphtha Storage Tank	30513	1.09	3.63																
68-95-76	Sour Naphtha Storage Tank	30513	1.06	3.50																
68-95-98	Cat. Gasoline Storage Tank	5920A	2.57	10.74																
68-95-206	Hydrotreated Naphtha Tank	30513	1.90	6.79																
68-95-210	Raffinate Storage Tank	30513	3.66	13.13																

Permit 49140 MAERT dated September 9, 2020
Permit 5920A MAERT dated September 9, 2020
Permit 30513 MAERT dated July 10, 2015 (renewed without changes 12/29/16)
Permit 7754A MAERT dated June 19, 2000 (renewed without changes 12/20/19)

Table 2: Permit Allowable Emission Change Summary (continued)

PTE Increase Summary																				
EPN	Source Name	Permit No.	VOC		Benzene		H_2S		NOx		CO		SO2		PM		PM_{10}		$PM_{2.5}$	
			(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
20-36-1	Pentane Reactor Furnace	49140	0.01	0.03	0	0	0	0	0.12	0.50	-1.31	-5.72	0.02	0.09	0.01	0.05	0.01	0.05	0.01	0.05
15-0-0	Unit 15 Fugitives	5920A	0.03	0.13	<0.01	<0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-0-0	Unit 11 Piping Fugitives	30513	0.01	0.03	<0.01	<0.01	<0.01	<0.01	0	0	0	0	0	0	0	0	0	0	0	0
14-0-0	Unit 14 Piping Fugitives	30513	0.02	0.08	<0.01	<0.01	<0.01	<0.01	0	0	0	0	0	0	0	0	0	0	0	0
35-0-0	Unit 35 Fugitives	30513	0.01	0.07	<0.01	<0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-6	Storage Tank 6	49140	0.15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-27	Storage Tank 27	49140	0.07	-0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-402	Storage Tank 402	49140	0.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-31	Storage Tank 31	30513	0.00	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-205	Storage Tank 205	30513	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-409	Storage Tank 409	30513	0.32		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-410	Storage Tank 410	30513	0.00	1.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-412	Storage Tank 412	30513	0.13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-413	Storage Tank 413	30513	0.39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-411	Storage Tank 411	30513	-0.02	0.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-216	Storage Tank 216	30513	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-207	Storage Tank 207	30513	0.10	-1.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-85	Storage Tank 85	30513	0.26	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-86	Storage Tank 86	30513	0.02	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-87	Storage Tank 87	30513	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-66	Storage Tank 66	30513	0.29		0	0	0.14		0	0	0	0	0	0	0	0	0	0	0	0
68-95-74	Storage Tank 74	30513	0.00		0	0	0.08		0	0	0	0	0	0	0	0	0	0	0	0
68-95-75	Storage Tank 75	30513	0.21	-8.71	0	0	0.13	1.98	0	0	0	0	0	0	0	0	0	0	0	0
68-95-76	Storage Tank 76	30513	0.00		0	0	0.07		0	0	0	0	0	0	0	0	0	0	0	0
68-95-98	Storage Tank 98	30513	0.00		0	0	0.14		0	0	0	0	0	0	0	0	0	0	0	0
68-95-206	Storage Tank 206	30513	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68-95-210	Storage Tank 210	30513	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total PTE Increase				-8.25		0.00		1.98		0.50		-5.72		0.09		0.05		0.05		0.05
Public Notice Threshold in 30 TAC §39.402				5		5		5		5		50		10		5		5		5
Major Modification (see Table 1F)?				no		n/a		no		no		no		no		no		no		no
Public Notice Triggered?				no		no		no		no		no		no		no		no		no

2 ADMINISTRATIVE FORMS

This section includes the following TCEQ Administrative Forms:

- Form APD-EXP, Expedited Permit Request;
- Form APD-APS, Air Permitting Surcharge Payment; and
- Copy of the fee payment.

The following TCEQ Administrative Forms were submitted to the agency in electronic (Excel) format. PDF copies are not included as part of this document since this application does not trigger public notice.

- Form PI-1 General Application – Permit 49140;
- Form PI-1 General Application – Permit 5920A;
- Form PI-1 General Application – Permit 30513; and
- Common Fugitive Calculation Workbook.

A PI-1 form is not required to be submitted for Permit 7754A because it is being consolidated into Permit 49140 as part of this project and the renewal date of 7754A is more than 6 years from the date of this submittal.

Important Notes:

6. The PI-1 for Permit 49140 reflects the total Project increases on the "Federal Applicability" tab and the total Project cost on the "Fees" tab. The "Federal Applicability" tab and the "Fees" tab Sections II-IV have been left blank in the Permit 5920A and 30513 workbooks. Public notice is not required for the project as detailed in Table 2.

   In accordance with 30 TAC §116.141, the permit fee is determined from the capital cost associated with any modifications of existing sources or the installation of any new emission sources. Furthermore, based on §116.143 a single fee is required for this project even though multiple permits are involved. Based upon the capital cost associated with this permit application, a fee of $18,600 is required. The fee details are addressed in the PI-1 for Permit 49140. A $18,600 payment is being submitted directly to the TCEQ Financial Administration Division for the fee required for this air permit amendment.

   Phillips 66 is requesting that this application be processed through TCEQ's expedited permit program. A $30,000 payment ($10,000 per permit involved in this project) is being submitted directly to the TCEQ Financial Administration Division for expedited review.

7. The PI-1 emission rates table for Permit 30513 has an omission for EPN 56-61-11 corrected. The current MRT (dated July 10, 2015; was renewed using the renewal certification option on December 29, 2016) does not show routine CO emissions from Flare 11. The application associated with the July 2015 permit (TCEQ Project No. 194981) involved changes to fugitive components and required PBR roll-ins. There is no indication of any intended change to Flare 11 emissions in the technical review or elsewhere in the application scan available through the TCEQ Records Online system. The CO emissions presented in the "consolidated" columns of the 30513 PI-1 workbook are those authorized in the previous version of the MRT dated February 12, 2007.

Form APD-EXP Expedited Permitting Request

I. Contact Information	
Company or Other Legal Customer Name: Phillips 66 Company	
Customer Reference Number (CN): CN604065912	
Regulated Entity Number (RN): RN101619179	
Company Official or Technical Contact Name: Vivek Gopal	
Phone Number: 979-491-2365	
Email: vivek.gopal@p66.com	
II. Project Information	
Facility Type: Sweeny Refinery	
Permit Number: 49140, 5920A, 30513	
Project Number: TBD	
III. Economic Justification	
The purpose of the application associated with this request to expedite will benefit the economy of this state or an area of this state.	☒ YES ☐ NO
IV. Delinquent Fees and Penalties	
Applications will not be expedited if any delinquent fees and/or penalties are owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: www.tceq.texas.gov/agency/delin/index.html.	
V. Signature	
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. As the applicant, I commit to fulfilling all expectations of the expedited permitting program and application requirements promptly. Failure to meet any expectation or requirement may cause my application to be removed from the expedited permitting program and possibly voided at the discretion of the TCEQ Executive Director. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.	
Name: VIVEK GOPAL	
Signature:	
Date: 9/17/2021	

Reset Form

Texas Commission on Environmental Quality

Form APD-APS Air Permitting Surcharge Payment

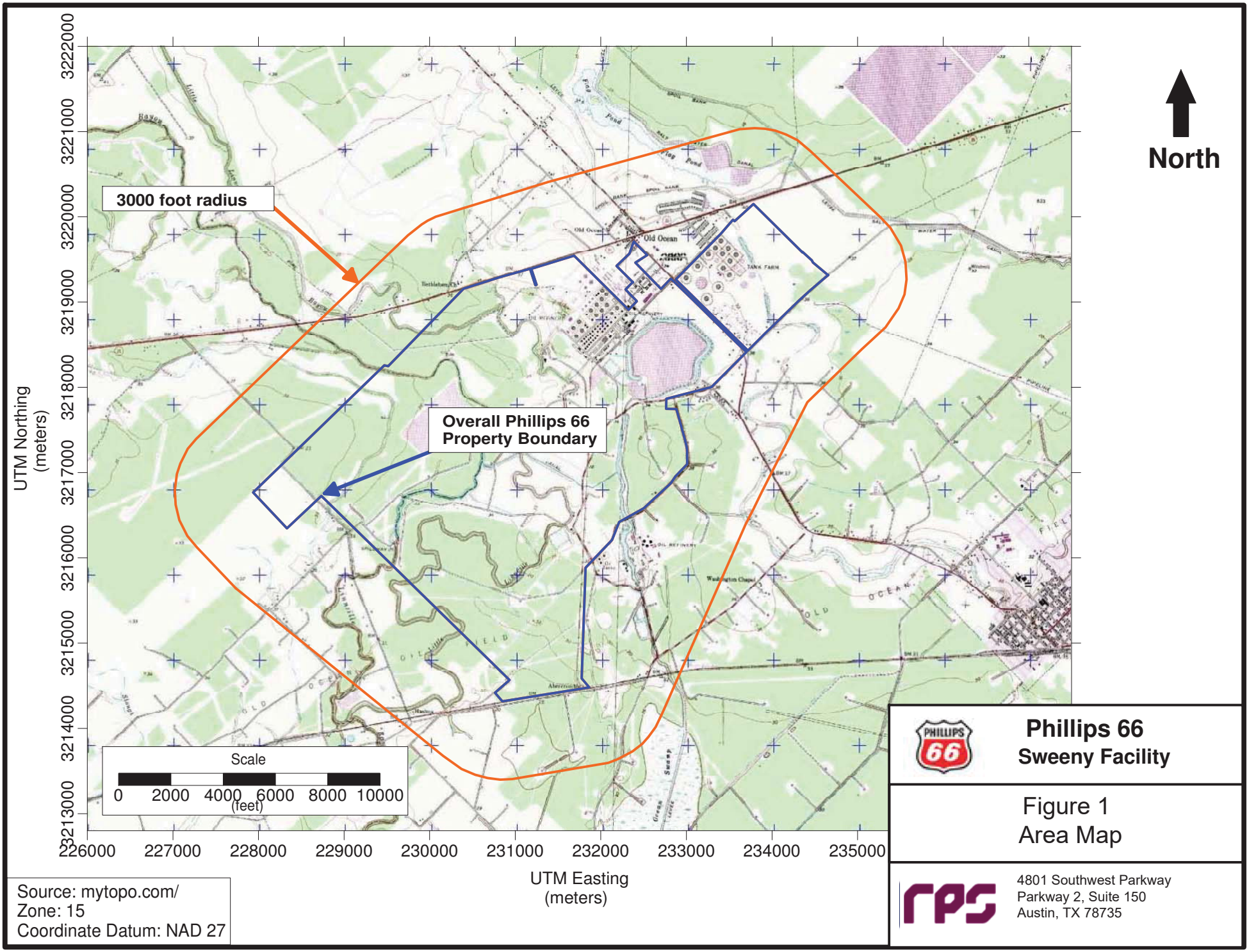
I. Contact Information	
Company or Other Legal Customer Name: Phillips 66 Company	
Customer Reference Number (CN): CN604065912	
Regulated Entity Number (RN): RN101619179	
Company Official or Technical Contact Information: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:_____)	
Name: Vivek Gopal	
Title: Environmental Manager	
Mailing Address: P.O. Box 866	
City: Sweeny	
State: TX	
ZIP Code: 77480	
Telephone Number: 979-491-2365	
E-mail Address: Vivek.Gopal@p66.com	
II. Project Information	
Facility Name: Sweeny Refinery	
Permit Number: 49140, 5920A, 30513	
Project Number: TBD	
III. Surcharge Payment	
Project Type: NSR case-by-case permit	
Fee Amount: $30,000 ($10,000 per permit)	
Check, Money Order, Transaction Number, and/or ePay Voucher Number: *(below)*	
ACH clearing # 100094079	
Paid Online:	☒ YES ☐ NO
Company Name on Check:	

Copy of fee payment:

Doc. Crcy	Due Date	Acc. Doc.	Doc. No.	Clrng doc.	Paid on	CoC
USD	09/09/2021	100094079		2000003906	09/14/2021	100
USD	09/09/2021	100094080		2000003906	09/14/2021	100

3 AREA MAP AND PLOT PLAN

An area map is shown in Figure 1 showing the 3,000-feet distance marking. A plot plan showing the location of new/modified Project sources is included as Figure 2.


North
3000 foot radius
Overall Phillips 66
Property Boundary
Old Ocean
Scale
0 2000 4000 6000 8000 10000
(feet)
UTM Northing
(meters)
3222000
3221000
3220000
3219000
3218000
3217000
3216000
3215000
3214000
3213000
226000
227000
228000
229000
230000
231000
232000
233000
234000
235000
UTM Easting
(meters)
Source: mytopo.com/
Zone: 15
Coordinate Datum: NAD 27
Phillips 66
Sweeny Facility
Figure 1
Area Map
4801 Southwest Parkway
Parkway 2, Suite 150
Austin, TX 78735

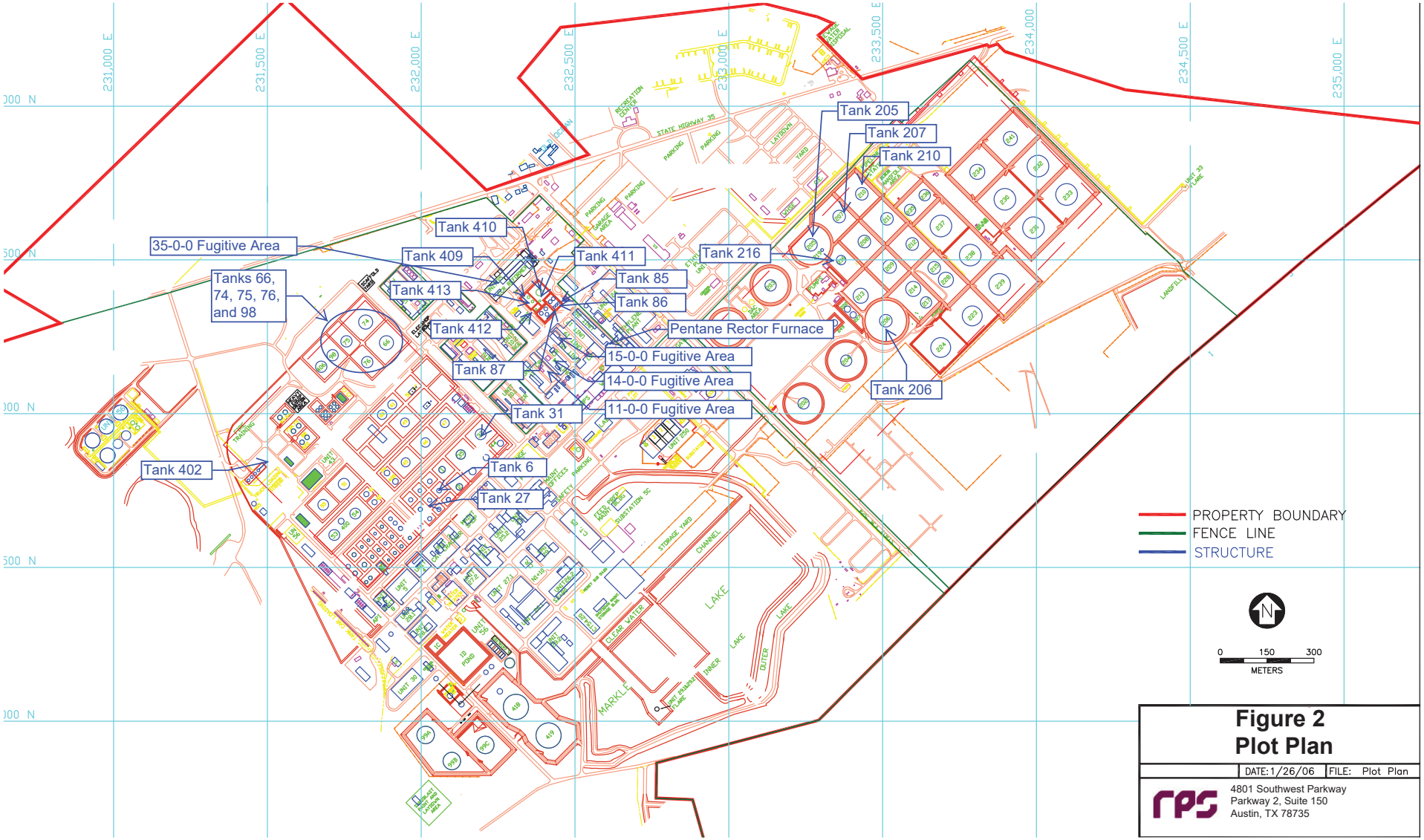


Figure 2
Plot Plan

DATE: 1/26/06 | FILE: Plot Plan

rps
4801 Southwest Parkway
Parkway 2, Suite 150
Austin, TX 78735

4 PROCESS DESCRIPTION

The Sweeny Refinery processes crude oil and other feedstock into products including gasoline, furnace oil, jet fuels, kerosene, petrochemicals, solvents, and blendstocks for liquid fuels. Brief process descriptions for the Units impacted by this project are included below.

4.1 Units 11 & 14

Units 11 and 14 are designed to convert the sulfur present in various compounds in the sour naphtha charge into hydrogen sulfide (H_2S), which can be easily separated from the naphtha. Sour naphtha is mixed with hydrogen, heated, then sent to the HDS reactor where chemically bound sulfur is converted to H_2S, and nitrogen present in various compounds is converted to ammonia (NH_3).

4.2 Unit 15

Unit 15 is a Hexane Processing Unit that produces motor fuel and normal hexane solvent. Unit 15 can be broken down into three sections: feed fractionation, benzene hydrogenation, and product fractionation. Feed from the Unit 14 Prefractionator overhead is charged to fractionator 15T-1 where pentane and lighter material is sent to Unit 20 charge. The bottom product is charged to another fractionation column (15T-3) where isohexanes are taken overhead to motor fuel blending. The bottom product from 15T-3 goes to storage tank 31 for intermediate storage before being charged to the benzene hydrogenation section. The benzene hydrogenation process converts benzene into cyclohexane using hydrogen over a catalyst bed. Effluent from the benzene hydrogenation section goes to the product fractionation tower 15T-2. Normal hexane solvent is made off 15T-2 overhead. The bottoms stream off 15T-2 is sent back to Unit 14.

The Depentanizer tower system (T-1) is a major constraint of Unit 15. The Depentanizer system is experiencing issues with system control and separation performance. This debottleneck project will address operating issues in the Hexane Processing Unit, specific to the Depentanizer tower system, by implementing modifications to accommodate feed composition change and performance improvement.

4.3 Unit 20

Unit 20 is a Pentane Isomerization Unit that converts normal pentane to isopentane. The pentane feed is dehydrated, mixed with hydrogen, heated, and sent to the reactor for isomerization. The heater burns purchased fuel gas and/or refinery fuel gas. The reactor effluent is debutanized in the Stabilizer, and the remaining pentanes are separated. The isopentane is sent to storage, the normal pentane is recycled, and a small purge stream of heavy components is returned to the NGL Fractionation Unit or Unit 15 charge tank.

4.4 Unit 35

Unit 35 includes the CCR Reformer process which processes hydrotreated naphtha to produce aromatic products. The CCR Reformer process is divided into four main areas:

1. Reactor. Naphtha feed is mixed with recycle hydrogen and heated. A sulfide material, chloride, or water may also be injected with the feed as needed to optimize the catalyst. The heated charge enters the first reactor and the reforming reaction converts napthenes, and to a lesser extent, paraffins, to aromatics and hydrogen. Approximately half of the hydrogen is recycled to the reformer reactor and the rest, net gas, is treated as discussed below. Catalyst coking occurs as a result of some hydrocracking such as C8 paraffin cracking into ethane + 2 propane molecules. Produced reformate goes to reformate fractionation.

2. Catalyst Regeneration. The main function of the CCR regeneration section is to burn coke off the catalyst.
3. Hydrogen (net gas) treatment. The net gas is treated to remove hydrocarbons and chlorides. The treated hydrogen product (net gas) is routed directly to the ARDS unit, to the hydrogen purification unit (Unit 26.2), routed to Units 11 and 14 for use as make-up hydrogen, used as lift gas to the lock hopper, and for catalyst reduction.
4. Reformate fractionation. Liquid leaving the net gas treating section is fed to the depentanizer column where pentane and lighter material leaves the overhead and stabilized reformate out the bottom. The overhead material is processed before being sent to Unit 10 (natural gas liquids fractionation). The stabilized reformate is then routed to the reformate splitter where benzene and toluene are taken overhead, and xylene and heavy aromatics out the bottom.

Figure 3: Unit 15 Process Flow Diagram

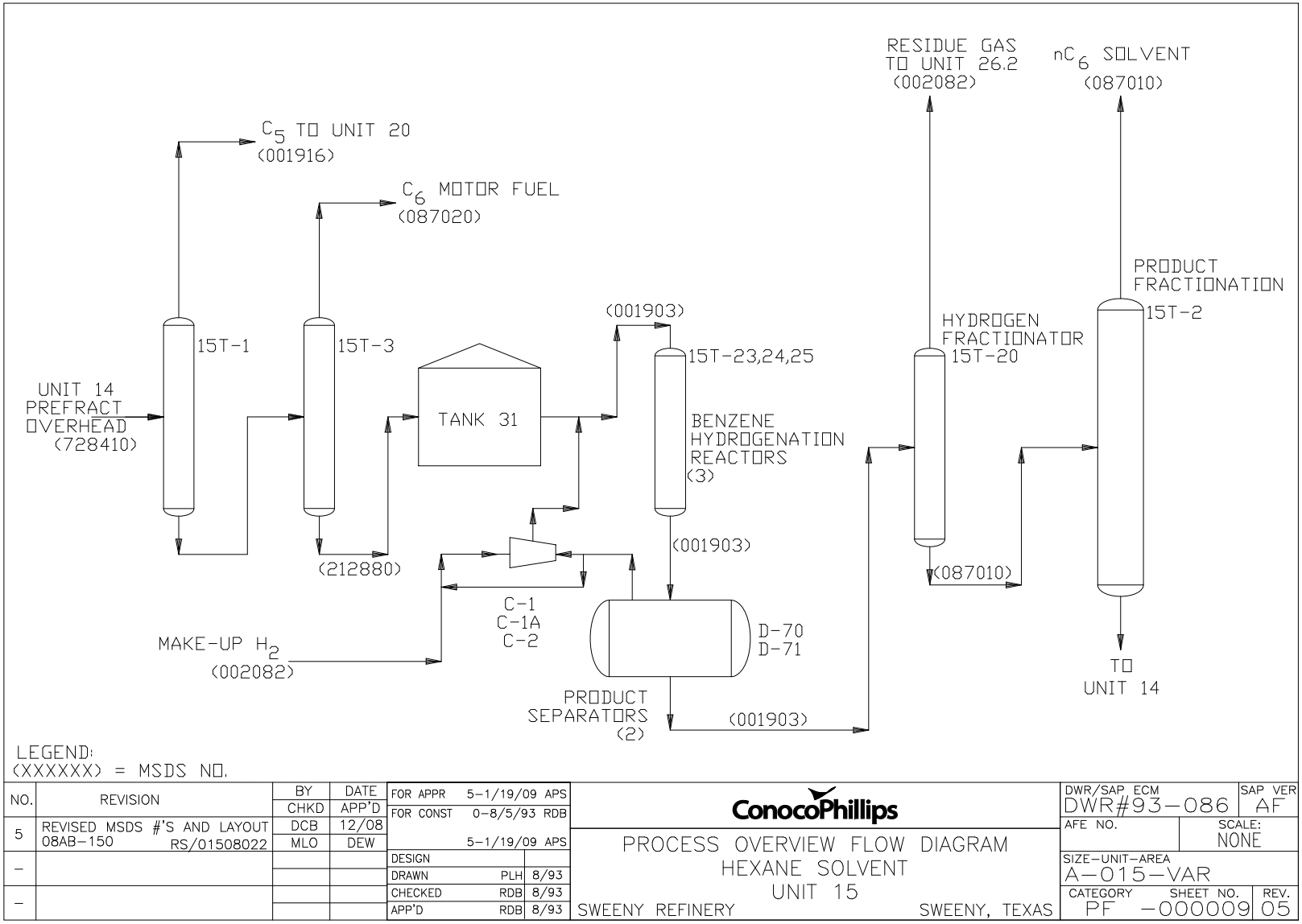
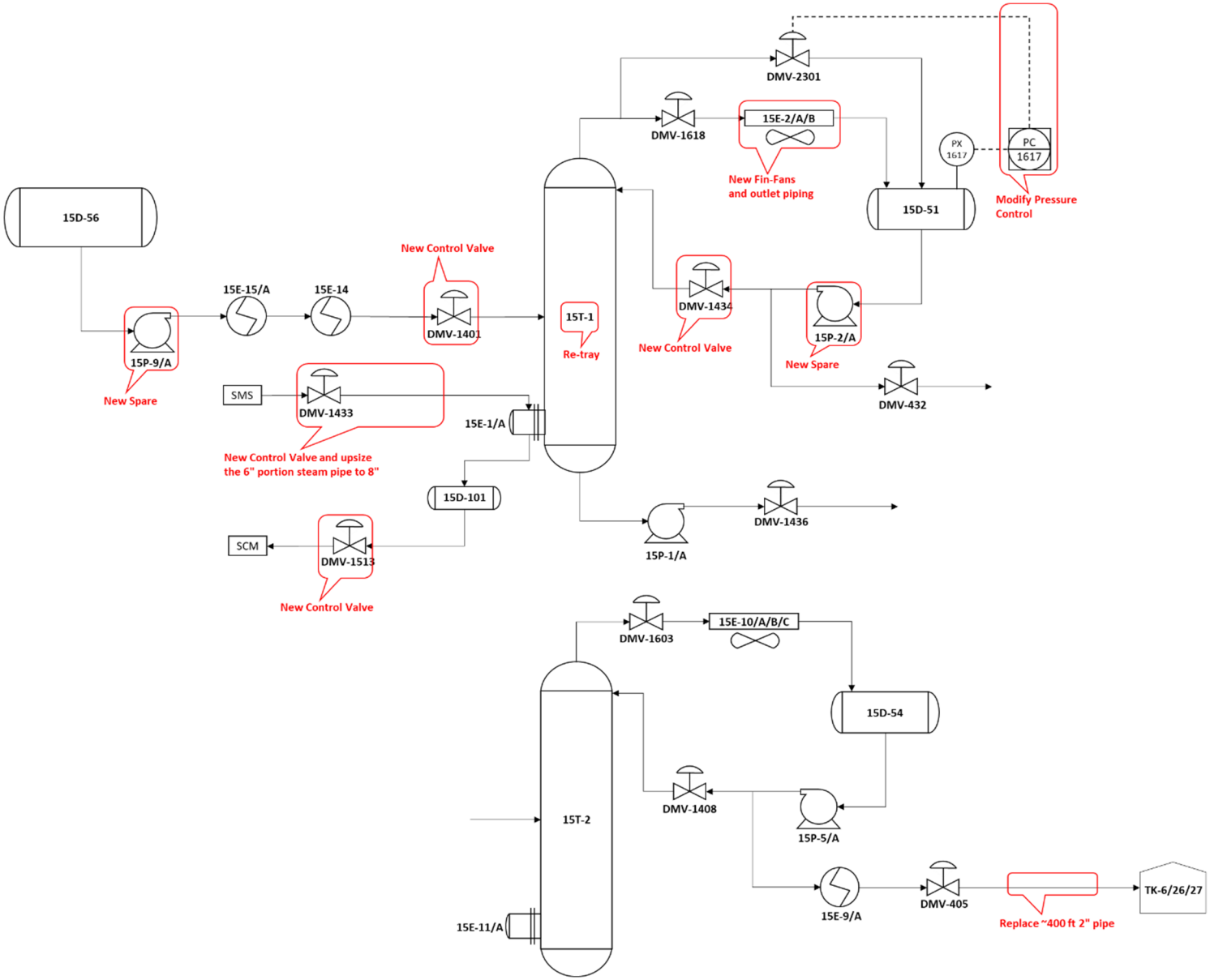


Figure 4: Project Change Diagram



5 EMISSION CALCULATIONS

Emission calculation factors and methods used to determine the proposed emission rates are described in this section. Detailed emission calculations are presented in Appendix A.

5.1 Heater

The Pentane Reactor Furnace (EPN 20-36-1) will be modified as part of this Project. Table A-1 presents emission calculations for the projected actual emission rates from the Project heaters. Emissions are calculated by multiplying the proposed firing rate by the emission factor for each pollutant, expressed in pounds per million British thermal unit (lb/MMBtu). The emission factors for nitrogen oxides (NOx), volatile organic compounds (VOC), sulfur dioxide (SO_2), and particulate matter (PM) including PM with aerodynamic diameters of 10 microns or less (PM_{10}) and PM with aerodynamic diameters of 2.5 microns or less ($PM_{2.5}$) are published factors from Chapter 1.4 of AP-42 as noted in Table A-1. AP-42 factors are converted to units of lb/MMBtu by dividing by 1,020 British thermal units per standard cubic foot (Btu/scf) as described in footnote (a) of Table 1.4-2. Carbon monoxide (CO) emissions are based on a concentration of 50 ppmv corrected to 3% oxygen.

5.2 Fugitive Components

Fugitive emission rates of VOC from piping components and ancillary equipment are estimated using the methods outlined in the TCEQ's Air Permit Technical Guidance for Chemical Sources Fugitive Guidance (APDG 6422) dated June 2018 . Each fugitive component is classified first by equipment type (i.e., valve, pump, relief valve, etc.) and then by material type (i.e., gas/vapor, light liquid, heavy liquid). An uncontrolled VOC emission rate is obtained by multiplying the number of fugitive components of a particular equipment/material type by the appropriate emission factor. Refinery emission factors are used to estimate emissions from the proposed components. Phillips 66 will implement an enhanced version of the 28 MID leak detection and repair (LDAR) program for the Project fugitive piping components so that LDAR control credit is applied. Please see Table A-2 and Section 6.2 for details of the LDAR enhancements applied for the Project components.

5.3 Storage Tanks

Routine emissions from the storage tanks were estimated using the calculation methods described in Section 7.1 of AP-42 following TCEQ guidance. Rather than applying AP-42 calculations to estimate total annual emission losses, the same equations are used to estimate emissions on a monthly basis. Annual emissions are the sum of the calculated monthly losses. Per TCEQ's Air Permit Reviewer Reference Guide (APDG 6419) *Short-term Emissions from Floating Roof Storage Tanks* dated February 2020 (revised), the short-term emission rate for floating roof storage tanks is determined using the same AP-42 equations with the maximum pump rate as the throughput basis. Storage tank calculations are presented in Table A-3.

The emission caps are calculated by summing the standing losses for all tanks in the cap, plus the highest individual tank working losses where the working losses for each individual tank are calculated using the total cap throughput.

The materials shown in Table A-3 are generally consistent with previously represented material name and estimated physical properties representations or current AP-42 data. The name/description for materials can vary even though the material properties are essentially the same; therefore, Phillips 66 intends to determine compliance based on the represented emissions rather than the material name or physical properties (vapor pressures, molecular weights, etc.).

Hydrogen sulfide (H_2S) emissions from tank EPNs 68-95-66, 68-95-74, 68-95-75, 68-95-76, and 68-95-98 are calculated using a K factor obtained from the paper "Using K Factors to Estimate Quantities of

Individual Vapor Species Emitted During the Storage and Transfer of Hydrocarbon Liquids" by J. Meling, K. Horne, & J. Hoover as detailed on Table A-4.

6 BEST AVAILABLE CONTROL TECHNOLOGY

Per 30 TAC §116.111(a)(2)(C), new or modified facilities must utilize best available control technology (BACT), with consideration given to the technical practicability and economic reasonableness of reducing or eliminating the emissions from the facility. Each facility is evaluated on a case-by-case basis. The emissions units that are being modified as part of this Project include a heater, fugitive components, and storage tanks. Section 7 addresses BACT for changes authorized via PBR and Standard Permit being incorporated into the NSR Permits.

As described in the guidance documents entitled *Evaluating Best Available Control Technology (BACT) in Air Permit Applications* (April 2001) the TCEQ BACT evaluation is conducted using a "tiered" analysis approach. The evaluation begins at the first tier and continues sequentially through subsequent tiers only if necessary, as determined by the evaluation process described in this document. In each tier, BACT is evaluated on a case-by-case basis.

Tier I BACT consists of the level of control technology currently accepted and established as BACT through permit reviews for that type of facility in the same industry. For the facilities covered by this application, current Tier I BACT can be identified by examining current TCEQ air permit technical guidance documents. Tier II BACT consists of the level of control technology currently accepted as BACT in recent permits for similar air emissions streams in a different industry. Tier III BACT is a detailed technical and quantitative economic analysis of all emission reduction options available for the process under review. The proposed BACT for all new and modified emission sources was established after completing a Tier I review. The Current BACT Spreadsheet from TCEQ website[1] was used for the BACT evaluation below.

6.1 Heater

The Pentane Reactor Furnace (EPN 20-36-1) is an existing unit and this project seeks to increase the allowable firing rate. The proposed new maximum firing rate is less than 100 MMBtu/hr so installation of a continuous emissions monitoring system (CEMS) and a cost analysis related to potential selective catalyst reduction (SCR) control is not required.

Nitrogen Oxide (NOx) Emissions

TCEQ's current BACT for NOx is 0.01 lb/MMBtu. The proposed emission calculations are based on 0.098 lb/MMBtu for NOx, consistent with AP-42. Given the age of the unit and the fact that this project does not involve any physical changes to the unit (this is a "turn the knob" change), Phillips 66 proposes that the represented NOx factor be accepted as BACT.

Carbon Monoxide (CO) Emissions

CO emissions from gas-fired heaters are the result of incomplete fuel combustion. With proper combustion technology and design, generation of CO is minimized by maintaining good combustion efficiency in a gas-fired heater. Combustion efficiency in heaters is a function of both design and operation. Proper fuel-to-air ratio and a design that provides the necessary residence time, temperature, and turbulence within the combustion zone ensure good combustion. Phillips 66 will follow good combustion practices and proper design (as applicable) for the heater. CO emissions have been updated to reflect an emission factor of 50 ppmv corrected to 3% oxygen, which is the current BACT for CO established by TCEQ. This change is supported by stack test results for the unit.

[1] https://www.tceq.texas.gov/permitting/air/nav/air_bact_chemsource.html *[Last Revision Date 03/19/19, accessed 7/1/2021]*

Particulate Matter (PM) Emissions

Emissions of PM, which includes PM_{10} and $PM_{2.5}$, from gas-fired heaters result from inert solids in the fuel and combustion air and from unburned fuel hydrocarbons that form particles that are emitted in the exhaust. $PM/PM_{10/2.5}$ emissions from gas-fired heaters are inherently low because such heaters achieve high combustion efficiencies and usually burn clean fuels. The primary methods for reducing PM for gas-fired heaters used by industry are good combustion and use of clean fuels. Phillips 66 will use natural gas and/or refinery fuel gas fuel for the unit and will follow good combustion practices to minimize emissions of $PM/PM_{10/2.5}$.

Sulfur Dioxide (SO2) Emissions

SO_2 is formed from the combustion of sulfur containing fuels. The amount of SO_2 emissions is directly proportional to the sulfur content of the fuel. The heater is currently, and will continue to be, subject to NSPS Subpart J which limits fuel gas H2S to 0.10 gr/dscf (163 ppm). Phillips 66 will use NSPS Subpart J compliant natural gas and/or refinery fuel gas fuel for the unit and will follow good combustion practices to minimize emissions of SO_2.

Volatile Organic Compound (VOC) Emissions

VOC emissions from gas-fired heaters are the result of incomplete fuel combustion. Like CO, operating conditions that enhance VOC formation include low temperature, insufficient residence time, and insufficient oxygen in the combustion zone. The incomplete combustion of VOC is minimized by maintaining good combustion efficiency through proper combustion design and practices. TCEQ does not specify a BACT guideline for VOC emissions from heaters. Since no other controls are available, good combustion practices and use of gaseous fuels (natural gas and/or refinery fuel gas) is proposed as BACT for heater VOC emissions.

6.2 Fugitive Components

Fugitive emissions from leaking process equipment will primarily result in emissions of VOC. Control of fugitive emissions from equipment components is accomplished through a combination of equipment design to minimize emissions and work practices, referred to as leak detection and repair (LDAR) programs. LDAR programs are the primary method used for fugitive emission control. The goal of an LDAR program is to minimize VOC emissions from piping components in gas or liquid service by regularly inspecting the piping components to identify leaks before they have time to generate substantial emissions. Leak detection can be accomplished using infrared cameras or other technology as well as by visual, audio, and olfactory cues. Once a leak is detected, LDAR programs require a specific regimen for fixing the leak. TCEQ has developed protocols for several LDAR programs of varying stringency that address these various criteria.

Total uncontrolled fugitive emissions from the refinery are greater than 25 tpy. The use of the 28VHP LDAR Program is considered BACT for this level of emissions per TCEQ guidelines. The 28MID LDAR Program is already implemented at the facility (Special Condition No. 34 of Permit 5920A and Special Condition No. 15 of Permit 30513). This program is very similar to the 28VHP Program in terms of control efficiency but has a more stringent leak definition for certain component types and it requires directed maintenance. Flanges must be monitored at least annually per Special Condition 35 of Permit 5920A (28CNTA) and therefore may receive 75% control credit. Flanges must be monitored at least quarterly per Special Condition 16 of Permit 30513 (28CNTQ) and therefore may receive 97% control credit. New pumps will be double sealed and tied to the flare header therefore also receive 100% control credit. Phillips 66 proposes that continued use of currently required LDAR programs for project fugitives meets BACT.

6.3 Storage Tanks

As noted in Section 1.1, this Project involves several storage tanks. All tanks (both modified and affected) are included in this section for completeness.

TCEQ's current BACT requirements for storage tanks with a capacity greater than 25,000 gallons and storing materials with a vapor pressure greater than 0.5 psia, but less than 11.0 psia, is installation of an internal floating roof (IFR), an external floating roof (EFR), or routing the tank vapors to control. The specific requirements of IFR tanks are that the uninsulated exterior surfaces be painted white or aluminum and that the roof include either (1) a mechanical primary seal and liquid mounted secondary seal, or (2) a vapor mounted primary seal and a rim mounted secondary seal. The specific requirements of EFR tanks are that uninsulated exterior surfaces exposed to the sun must be white or aluminum, tanks must have a mechanical or liquid mounted primary seal and a rim mounted secondary seal, slotted guide pole fittings must have gasketed cover and at least two of the following: wiper, float, or sleeve. New IFR and EFR tanks are also required to be drain-dry design.

As demonstrated below, the Project tanks all comply with TCEQ's BACT. These are all existing tanks; therefore, the drain-dry design requirement is not applicable. Note that the vapor pressures shown are for the material services identified in this application. Philips 66 is not proposing to remove existing authorization for any other material service(s) authorized for the tanks below.

Tank ID	68-95-6	68-95-27	68-95-31	68-95-85	68-95-86	68-95-87
Tank Type	IFR	IFR	IFR	IFR	IFR	IFR
Working Volume (bbl)	13,391	15,816	9,358	2,199	2,304	2,178
Max Vapor Pressure (psia)	5.32	5.35	6.99	4.02	2.92	3.04
Paint Color	White	White	White	White	White	White
Mechanical-Shoe Primary		X				
Vapor-Mounted Primary	X		X	X	X	X
Rim-Mounted Secondary	X	X	X	X	X	X

Tank ID	68-95-402	68-95-409	68-95-410	68-95-411	68-95-412	68-95-413
Tank Type	IFR	IFR	IFR	IFR	IFR	IFR
Working Volume (bbl)	28,836	4,481	28,398	4,508	2,125	4,503
Max Vapor Pressure (psia)	5.30	5.16	5.25	2.61	5.24	5.18
Paint Color	White	White	White	White	White	White
Mechanical-Shoe Primary					X	
Vapor-Mounted Primary	X	X	X	X		X
Rim-Mounted Secondary	X	X	X	X	X	X

Tank ID	68-95-66	68-95-74	68-95-75	68-95-76	68-95-98
Tank Type	EFR	EFR	EFR	EFR	EFR
Working Volume (bbl)	140,872	136,766	72,891	71,878	85,922
Max Vapor Pressure (psia)	6.85	6.55	6.79	6.85	6.56
Paint Color	White	White	White	White	White
Mechanical-Shoe Primary	X	X	X	X	X
Rim-Mounted Secondary	X	X	X	X	X
Guide Pole Details	unslotted	(none)	unslotted	(none)	unslotted

Tank ID	68-95-205	68-95-206	68-95-207	68-95-210	68-95-216
Tank Type	EFR	EFR	EFR	EFR	EFR
Working Volume (bbl)	91,116	88,556	90,558	91,683	50,455
Max Vapor Pressure (psia)	1.77	6.15	8.07	6.20	0.84
Paint Color	White	White	White	White	White
Mechanical-Shoe Primary	X	X	X	X	X
Rim-Mounted Secondary	X	X	X	X	X
Guide Pole Details	(none)	unslotted	unslotted	unslotted	unslotted

7 PERMIT BY RULE INCORPORATION

In accordance with 30 TAC §116.116(d) and following additional TCEQ guidance provided in the September 26, 2006 memorandum entitled *Revised Permit by Rule (PBR) and Standard Permit (SP) Consolidation Into Permits*, Phillips 66 is incorporating PBRs into Permit Nos. 49140, 5920A, and 30513 as required. Table 3 provides a summary of the PBR authorizations to be incorporated as part of this project, along with the authorized emission rate increases that should be added to the associated NSR permit for each affected EPN.

Note that PBR Registration No. 157719 is currently shown as effective in TCEQ's list of authorizations online; however, this project was incorporated into Permit 5920A as part of Project 315310. Similarly, Standard Permit Registration No. 106776 is currently shown as effective in TCEQ's list of authorizations online; however, this project was incorporated into Permit 21265 as part of Project 252162.

Standard Permit 148130 authorizes the installation of internal floating roofs on existing fixed roof tanks 203 and 235 and a change of service for the tanks to petroleum fractions for operational flexibility. Changes to Tank 203 were already incorporated as part of TCEQ Project No. 315315. Tank 235 is authorized under Permit 5689A, which is not impacted by this project so Registration No. 148130 should remain active.

Table 3: Permit by Rule Incorporation Summary

Registration No.	EPN	Description	Pollutant	(lb/hr) [1]	(tpy) [1]	Associated Permit
25434 [2]	68-95-207	Storage Tank 207	VOC	1.63 [3]	5.95 [3]	30513
117901	68-95-33	Tank 33	VOC	0.05	0.14	49140
	68.1-0-0	Fugitives (PBR EPN T-FUG)	VOC	0.08	0.33	5920A
146501	68-95-412	Storage Tank 412	VOC	0.32 [3]	0.77 [3]	30513
	56-61-1	Flare 1	NOx	(0.52)	(2.27)	30513
			CO	(4.44)	(19.44)	
			VOC	(6.34)	(12.35)	
			SO2	(0.01)	(0.04)	
147128	35-36-1	CCR Furnace [1]	VOC	--	1.9	30513
			NOx	--	(21.33)	
			CO	--	(93.55)	
			$PM/PM_{10/2.5}$	--	2.63	
			SO2	--	(2.03)	
	68-95-409	Xylene Storage Tank	VOC	0.46 [3]	1.23 [3]	30513
	68-95-413	Xylene Storage Tank	VOC	0.46 [3]	1.23 [3]	30513
155673	35-0-0	Unit 35 Fugitives	VOC	0.06	0.24	30513
158591	68-95-7	Tank 7	VOC	0.74 [4]	0.56 [4]	49140
158957	9-0-0	Fugitives	VOC	0.14	0.63	5920A
	68.1-0-0	Refinery Tank Farm Fugitives	VOC	0.05	0.21	5920A
	27.1-0-0	FCC Fugitives	VOC	<0.01	0.01	5920A
160791 [2]	5-0-0	Unit 5 Fugitives	VOC	<0.01	0.01	5920A
	7-0-0	Unit 7 Fugitives	VOC	<0.01	<0.01	30513
	8-0-0	Unit 8 Fugitives	VOC	<0.01	<0.01	5920A
	9-0-0	Fugitives	VOC	0.01	0.03	5920A

Registration No.	EPN	Description	Pollutant	(lb/hr) [1]	(tpy) [1]	Associated Permit
160791 [2] *(continued)*	11-0-0	Unit 11 Fugitives	VOC	0.12	0.55	30513
	14-0-0	Unit 14 Fugitives	VOC	0.15	0.67	30513
			H_2S	<0.01 [4]	<0.01 [4]	
	17-0-0	Unit 17 Fugitives	VOC	0.05	0.22	30513
	20-0-0	Unit 20 Fugitives	VOC	0.03	0.13	5920A
	25.1-0-0	Sour Crude Unit Fugitives	VOC	0.11	0.5	5920A
			H_2S	<0.01 [4]	<0.01 [4]	
	25.2-0-0	DHT Unit Fugitives	VOC	0.02	0.08	5920A
	26.1-0-0	CFHT Fugitives	VOC	0.03	0.12	5920A
			H_2S	<0.01 [4]	<0.01 [4]	
	26.2-0-0	HPU Fugitives	VOC	0.10	0.45	5920A
			H_2S	<0.01 [4]	<0.01 [4]	
	27.1-0-0	FCC Fugitives	VOC	<0.01	<0.01	5920A
	27.2-0-0	FCC Gas Plant Fugitives	VOC	<0.01	0.01	5920A
	28.1-1-0	ARU/SWS Fugitives	VOC	<0.01	<0.01	5920A
	28.2-0-0	SRU Fugitives	VOC	0.01	0.05	5920A
	29.1-0-0	Vacuum Fugitives	VOC	0.01	0.06	5920A
	29.2-0-0	Coker Fugitives	VOC	0.06	0.26	5920A
			H_2S	<0.01 [4]	<0.01 [4]	
	35-0-0	Unit 35 Fugitives	VOC	0.01	0.04	30513
	87-0-0	Railcar Loading Fugitives	VOC	0.02	0.08	49140
	68.1-0-0	Refinery Tank Farm Fugitives	VOC	0.12	0.51	5920A
	68.2-0-2	Refinery Tank Farm Fugitives	VOC	0.03	0.13	5920A

[1] emissions shown are the increase to the currently permitted rates authorized by the PBR.
[2] partial incorporation only; see details in the relevant text section below.
[3] different emissions are proposed for this project, see Table 2 and calculations in Appendix A.
[4] see comments in text regarding incorporated emission rates.

TCEQ requires that BACT be addressed in order for PBRs to be incorporated into a permit. BACT guidance from TCEQ's website was used in the evaluation presented below. The following sections discuss the BACT applicability for each project:

Registration No. 25434

This project authorizes changes associated with the "Gasoline In-Line Blending Project" which includes change of service for several storage tanks, including Storage Tank 207. Tank 207 is an EFR tank used to store light straight run gasoline.

TCEQ's current BACT guidelines for EFR tanks are that uninsulated exterior surfaces exposed to the sun must be white or aluminum, tanks must have a mechanical or liquid mounted primary seal and a rim mounted secondary seal, slotted guide pole fittings must have gasketed cover and at least two of the following: wiper, float, or sleeve. New tanks must have a drain-dry design.

Tank 207 has a white exterior, a mechanical shoe primary seal, and a rim mounted secondary seal. The tank does not have any slotted guidepoles. The tank is an existing tank, so the drain-dry requirement does not apply. Tank 207 complies with current BACT requirements.

The following tanks also have emissions authorized under PBR Registration No. 25434; however, the current permit allowable limits are greater than the PBR limits below and therefore no change to the currently proposed limits are requested.

EPN	Source Description	Pollutant	PBR lb/hr	PBR tpy	Associated Permit No.
68-95-205	Heavy Aromatics Storage Tank	VOC	0.28	0.84	30513
68-95-206	Hydrotreated Naphtha Tank	VOC	0.19	0.7	30513
68-95-210	Raffinate Storage Tank	VOC	0.34	1.28	30513
68-95-213	Alkylate Storage Tank	VOC	0.79	3.09	5920A
68-95-216	Toluene Storage Tank	VOC	0.13	0.43	30513

The following tanks are authorized solely by PBR Registration No. 25434 and/or other permits that are not being opened as part of this project; therefore, these will remain as-is under PBR Registration No. 25434.

EPN	Source Description	Pollutant	PBR lb/hr	PBR tpy	Associated Permit No.
68-95-214	Storage Tank 214	VOC	0.79	3.09	25434
68-95-217	Storage Tank 217	VOC	0.9	3.63	25434
68-95-234	Storage Tank 234	VOC	0.93	2.67	5689A / 25434
68-95-241	Storage Tank 241	VOC	1.83	5.16	25434

Registration No. 117901

This project involves the replacement/refurbishment of Tank 33. Tank 33 is authorized to be rebuilt as an EFR tank using double seal technology and to store refined petroleum product with a vapor pressure of less than 11.0 psia at the maximum storage temperature.

TCEQ's current BACT guidelines for EFR tanks are that uninsulated exterior surfaces exposed to the sun must be white or aluminum, tanks must have a mechanical or liquid mounted primary seal and a rim mounted secondary seal, slotted guide pole fittings must have gasketed cover and at least two of the following: wiper, float, or sleeve. New tanks must have a drain-dry design.

Tank 33 has a white exterior, a mechanical shoe primary seal, and a rim mounted secondary seal. The tank does not have any slotted guidepoles and has a drain-dry design. Tank 33 complies with current BACT requirements.

Note that Registration No. 117901 also includes MSS emissions for Tank 33. Sufficient tank MSS emissions are already authorized under Permit No. 80806; therefore, the MSS portion of this PBR registration do not need to be incorporated.

Project fugitive component emissions (represented as EPN T-FUG) in Registration No. 117901) are being incorporated into EPN 68.1-0-0 of Permit 5920A. The Sweeny Refinery has uncontrolled fugitive VOC emissions of greater than 25 tpy so TCEQ's BACT guidelines call for use of the 28VHP LDAR program.

The 28MID LDAR Program is already implemented at the facility (Special Condition No. 34 of Permit 5920A). This program is very similar to the 28VHP Program in terms of control efficiency but has a more stringent leak definition for certain component types and it requires directed maintenance. In addition, the 28CNTQ Program is applicable for EPN 68.1-0-0 as specified in Special Condition No. 36 of Permit 5920A. Project emissions apply a 97% credit for valves and flanges. The applied LDAR and associated control credits is compliant with current BACT requirements.

Standard Permit No. 146501

This project is a Pollution Control Project (PCP) Standard Permit top authorize a control method change for Tank 412. Tank 412 is an existing fixed roof tank controlled by Flare-1 (EPN: 56-61-1). This Standard Permit authorized the installation and operation of an internal floating roof on Tank 412 and the subsequent removal of Flare1 from service. Tank 412 (EPN 68-95-412) stores petroleum fractions.

TCEQ's current BACT guidelines for IFR tanks are that uninsulated exterior surfaces exposed to the sun must be white or aluminum. Tanks must have a mechanical or liquid mounted primary seal or a vapor-mounted primary seal with a rim mounted secondary seal. New tanks must have a drain-dry design.

Tank 412 has a white exterior, mechanical shoe primary seal, and rim-mounted secondary seal. The tank is an existing tank, so the drain-dry requirement does not apply. Tank 412 complies with current BACT requirements.

Note that Registration No. 146501 also includes MSS emissions for Tank 412. Sufficient tank MSS emissions are already authorized under Permit No. 80806; therefore, the MSS portion of this PBR registration do not need to be incorporated.

Registration No. 147128

This project involves two changes. First is an increase to the rolling annual firing rate of the CCR Furnace (EPN: 35-36-1) from 404.5 MMBtu/hr to 485 MMBtu/hr due to increase in annual fuel usage. The hourly firing rate will remain at 500 MMBtu/hr as authorized in Permit No. 30513. The purpose of increasing the annual firing rate is to provide seasonal operating flexibility as needed. The second is changes of service for tanks 409 and 413 to authorize storage of reformate. Tanks 409 and 413 are currently authorized for storage of xylene and Phillips 66 requests to retain the current xylene authorization.

TCEQ's current BACT guidelines for furnaces is use of burners with the best NOx performance given the burner configuration and gaseous fuel used. NOx emission factors above 0.01 lb/MMBtu should be justified, including cost analysis for SCR if firing rate is >300 MMBtu/hr. CO emissions should meet 50 ppmv, corrected to 3% oxygen.

The CCR Furnace is an existing emission source and this project only involves increased annual fuel usage. Annual emissions are based on a CO factor of 0.006 lb/MMBtu which is equivalent to approximately 8 ppm corrected to 3% oxygen and is compliant with current BACT. Annual NOx emissions are based on a factor of 0.04 lb/MMBtu. A cost analysis for installation of SCR on this unit was performed in 2017. That estimate came to approximately $15,000,000. Given a SCR-controlled emission basis of 0.01 lb/MMBtu, SCR would equate to roughly $235,000/ton for NOx. Given the estimated cost of SCR, the age of the unit, and the fact that this change does not involve physical modifications, Phillips 66 proposes that the unit continues to meet BACT for NOx.

Please note that the PBR technical review document contains annual emission rates that do not correspond with other representations in the application. The emissions represented in Table 3 and the PI-1 "consolidated" columns for the CCR Furnace are the difference between the authorized rates in Permit 30513 and the calculation representations in the PBR. Negative emissions cannot be entered into the PI-1 "consolidated" columns; therefore, the pollutants with annual decreases (NOx, CO, SO_2) have been left blank.

Tank 409 and 413 are both IFR tanks. TCEQ's current BACT guidelines for IFR tanks are that uninsulated exterior surfaces exposed to the sun must be white or aluminum. Tanks must have a mechanical or liquid mounted primary seal or a vapor-mounted primary seal with a rim mounted secondary seal. New tanks must have a drain-dry design.

Tank 409 and Tank 413 have white exteriors, vapor mounted primary seals, and rim-mounted secondary seals. Both are existing tanks, so the drain-dry requirement does not apply. Tanks 409 and 413 comply with current BACT requirements.

Registration No. 155673

This project involves repurposing existing tower 35T-204 to a naphtha splitter for Unit 11 hydrotreated naphtha (while retaining authorization for xylene mode for operational flexibility). The PBR registration authorizes light liquid service fugitive changes associated with the project.

The Sweeny Refinery has uncontrolled fugitive VOC emissions of greater than 25 tpy so TCEQ's BACT guidelines call for use of the 28VHP LDAR program.

The 28MID LDAR Program is already implemented at the facility (Special Condition No. 15 of permit 30513). This program is very similar to the 28VHP Program in terms of control efficiency but has a more stringent leak definition for certain component types and it requires directed maintenance. In addition, the 28CNTQ Program is applicable specified in Special Condition No. 16 of Permit 30513. Project emissions apply a 97% credit for valves, flanges, and connectors; and 93% credit for pumps. The applied LDAR and associated control credits complies with current BACT requirements.

Registration No. 158591

This project authorizes the construction and operations of a new cone roof tank, Tank 7 (EPN 68-95-7), which replaced a demolished tank. Tank 7 stores dual purpose fuel oil (LSD), which has a vapor pressure of less than 0.5 psia. The emissions shown in Table 3 are the increase between the existing MRT limit for EPN 68-95-7 and the PBR requested rates since replacement tank has the same EPN.

TCEQ's current BACT guidelines for fixed roof tanks storing materials with a vapor pressure less than 0.5 psia is use of submerged fill and that uninsulated exterior surfaces exposed to the sun must be white or aluminum.

Tank 7 has a white exterior and has a submerged fill pipe. Tank 7 complies with current BACT requirements.

Registration No. 158957

This project involves installation of additional fugitive components associated with three refinery projects. The changes involve new light liquid and heavy liquid service components for EPN 9-0-0, and new heavy liquid service components for EPNs 68.1-0-0 and 27.1-0-0.

The Sweeny Refinery has uncontrolled fugitive VOC emissions of greater than 25 tpy so TCEQ's BACT guidelines call for use of the 28VHP LDAR program with 97% credit for valves and 85% for pumps and compressors (Table V of APDG 6422 clarifies that the 85% is for light liquid service; heavy liquid pumps are 0% credit with standard 28VHP).

The 28MID LDAR Program is already implemented at the facility (Special Condition No. 34 of permit 5920A). This program is very similar to the 28VHP Program in terms of control efficiency but has a more stringent leak definition for certain component types and it requires directed maintenance. Project emissions apply a 97% credit for valves and flanges and 0% credit for heavy liquid service pumps. The project does not involve any light liquid service pumps. Project emissions apply a 97% credit connectors consistent monitoring required by Special Condition Nos. 36 and 37 of permit 5920A. The applied LDAR and associated control credits complies with current BACT requirements.

Registration No. 160791

This project involves installation of additional fugitive components associated with various refinery projects in 2019. Please note that the technical review for this PBR only lists VOC emissions; however, the submitted calculations include H_2S emissions as well. The represented H_2S emissions are included for incorporation in Table 3. Fugitive emission EPNs authorized in Permits 5920A, 30513, and 49140 are being incorporated as part of this project. The following fugitive emissions are authorized in other permits that are not being opened at this time and therefore will stay authorized under Registration No. 160791.

EPN	Source Description	Pollutant	PBR lb/hr	PBR tpy	Associated Permit No.
30-0-0	Process Fugitives	VOC	0.02	0.08	18142
51-0-0	Fugitives	VOC	<0.01	<0.01	31914
56-0-0	Process Fugitives	VOC	0.04	0.16	21265

Total uncontrolled fugitive emissions from the Sweeny Refinery are greater than 25 tpy. The use of the 28VHP Leak Detection and Repair Program is considered BACT for this level of emissions, per TCEQ's website. The 28MID LDAR Program is already implemented at the facility (Special Condition No. 34 of Permit 5920A, Special Condition No. 15 of Permit 30513, and Special Condition No. 7 of Permit 49140). This program is very similar to the 28VHP Program in terms of control efficiency but has a more stringent leak definition for certain component types and it requires directed maintenance. In addition, the 28CNTQ Program is already implemented (Special Condition No. 36 of Permit 5920A and Special Condition No. 16 of Permit 30513). Phillips 66 has committed to monitoring certain heavy liquid beyond the requirements of 28PI as outlined in Special Conditions 37 and 38 of permit 5920A. Those monitoring requirements, which correspond with 97% control credit, will be applied to the relevant components identified in PBR 160791. Only light liquid fugitive components were authorized for EPN 87-0-0 (Permit 49140). Only gas/vapor and light liquid components were authorized for EPNs 7-0-0, 11-0-0, 14-0-0, 17-0-0, and 35-0-0 (Permit 30513).

Two issues with the PBR emission calculations were discovered as part of the BACT review:

1. EPN 17-0-0 (Permit 30513) applied 97% LDAR control efficiency for sample connections. This is not an appropriate control efficiency for use with the sample connections emission factor. Upon further review, it was determined that the sample connection component count originally represented should in fact have been input as twice that count of flanges.
2. EPN 87-0-0 (Permit 49140) applied 97% LDAR control efficiency for light liquid connectors. Use of this control efficiency is not appropriate because, unlike Permit Nos. 5920A and 30513, Permit 49140 does not currently include the 28CNTQ program. The 28MID LDAR control efficiencies should be applied for Permit 49140 fugitive EPNs.

Phillips 66 has included revised calculations for EPNs 17-0-0 and 87-0-0 as part of this project. Table A-5 presents the original PBR calculations followed by the revised calculations for each EPN. Changes in the revised calculations are highlighted with yellow. Note that the calculations have been simplified to exclude component types and speciated chemicals that were displayed in the original PBR submittal but have zero count/composition associated with them.

8 FEDERAL NEW SOURCE REVIEW

Nonattainment New Source Review (NNSR) permitting is required for each nonattainment pollutant for which a modification of an existing major source will result in a significant net emissions increase. Prevention of Significant Deterioration (PSD) permitting is required for a modification of an existing major source for each attainment pollutant and other regulated pollutants (such as H_2S) for which the modification will result in a significant net emissions increase.

As of September 23, 2019, the Houston-Galveston-Brazoria area was classified as Serious Nonattainment for ozone and attainment/unclassifiable for all other pollutants. Since VOC and NOx emissions are both precursors to ozone formation, both pollutants must be evaluated for NNSR applicability. The Sweeny Refinery is an existing major source for NNSR and PSD applicability review.

Table 4 presents the project emissions of VOC, NOx, CO, SO_2, PM, PM_{10}, $PM_{2.5}$ and H_2S / total reduced sulfur (TRS) along with a comparison to the relevant significant increase (NNSR) or major source (PSD) threshold levels. All pollutants are below the applicable NNSR/PSD thresholds. Tables 1F and 2F are provided in Appendix B. Evaluation of GHGs is not required because the Project does not trigger PSD review for other pollutants.

Table 4: NNSR/PSD Applicability Review

Pollutant	Federal Program	Project Increase (tpy)	Netting Threshold (tons)	Contemp-oraneous Increase (tons)	Federal Review Threshold (tons)	Federal Review Required? (Yes/No)
VOC	NNSR	4.51	5	n/a	25	No
NOx	NNSR	4.66	5	n/a	25	No
CO	PSD	5.09	---	---	100	No
SO_2	PSD	1.88	---	---	40	No
PM	PSD	0.36	---	---	25	No
PM_{10}	PSD	0.36	---	---	15	No
$PM_{2.5}$	PSD	0.36	---	---	10	No
H_2S/TRS	PSD	1.98	---	---	10	No

Note that baseline emissions for the storage tanks have been recalculated for this project using the current AP-42 equations and factors so that the emissions use a consistent basis. The baseline calculations are included in Appendix B.

9 GENERAL APPLICATION REQUIREMENTS

This section addresses each of the general application requirements as specified in 30 TAC §116.111 for New Source Review permits.

Protection of Public Health and Welfare - 30 TAC §116.111(a)(2)(A)

As outlined below, the emissions from the facilities comply with all air quality rules and regulations and with the intent of the TCAA, including protection of the health and physical property of the people.

Chapter 101 - General Rules

The sources addressed in this application will be operated in accordance with the General Rules relating to circumvention, nuisance, traffic hazard, notification requirements for major upsets, notification requirements for maintenance, sampling, sampling ports, emissions inventory requirements, sampling procedures, compliance with Environmental Protection Agency standards, the National Primary and Secondary Air Quality Standards, inspection fees, emissions fees, and all other applicable General Rules.

Chapter 111 - Visible Emissions and Particulate Matter

Emissions from Project sources will comply with the applicable requirements of Chapter 111 including the opacity limits of §111.111(a)(1) and the allowable particulate matter emission rates specified in §111.151. Refer to Federal Operating Permit No. O1626 for specific applicability/exemption details.

Chapter 112 - Sulfur Compounds

SO_2 emissions will not exceed the net ground level concentrations specified in §112.3.

Chapter 113 - Toxic Materials

The Sweeny Refinery is subject to rules referenced in Chapter 113 as detailed in the NESHAP and NESHAPS sections below.

Chapter 114 - Motor Vehicles

No motor vehicles are addressed in this permit; therefore, this regulation does not apply. However, Phillips 66 will comply with all applicable requirements of Chapter 114.

Chapter 115 - Volatile Organic Compounds (VOC)

The fugitive component sources will comply with applicable Chapter 115 provisions, including Subchapter D, Division 3: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, and Petrochemical Processes in Ozone Nonattainment Areas and Subchapter H, Division 3: Fugitive Emissions. Storage tanks will comply with applicable Chapter 115 provisions, including Subchapter B, Division 1: Storage of Volatile Organic Compounds. Refer to Federal Operating Permit No. O1626 for specific applicability/exemption details.

Chapter 117 - Nitrogen Compounds

The Pentane Reactor Furnace will comply with applicable Chapter 117 provisions, including Subchapter B, Division 3: Houston-Galveston-Brazoria Ozone Nonattainment Area Major Sources. Refer to Federal Operating Permit No. O1626 for specific applicability/exemption details.

Chapter 122 – Federal Operating Permits

Federal Operating Permit No. O1626 has been issued for the Sweeny Refinery. Phillips 66 will revise Permit No. O1626 as required.

Impact on Schools

There are no active schools located within 3,000 feet of the Sweeny Refinery site.

Measurement of Emissions - 30 TAC §116.111(a)(2)(B)

Emissions will be sampled upon request of the Executive Director of the TCEQ.

Best Available Control Technology - 30 TAC §116.111(a)(2)(C)

Section 6 of this application provides a description of the emissions controls used to control emissions from the project sources.

NSPS - 30 TAC §116.111(a)(2)(D)

The Project sources will comply with applicable New Source Performance Standards (NSPS) as listed in 40 CFR Part 60. Sources in this application are potentially applicable to the following NSPS Subparts:

- Subpart A – General Provisions
- Subpart J - Standards of Performance for Petroleum Refineries
- Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984

Tanks 68-95-402, 68-95-409, 68-95-411, 68-95-412, and 68-95-413 are currently subject to NSPS Subpart Ka. This project involves modifications to the tanks so NSPS Subpart Kb will be applicable. Tanks 68-95-402, 68-95-409, and 68-95-411 are also currently subject to MACT G as indicated in Permit O1626. Per MACT G §63.110(b), Group 1 or Group 2 storage vessel that is also subject to the provisions of 40 CFR part 60, Subpart Kb is required to comply only with the provisions of Subpart G.

Heater 20-36-1 does have a proposed firing rate increase an associated emission increase as part of this Project. The increased rate is a “turn the knob” change and does not involve capital expenditure on the heater and therefore is not considered a modification per §60.14(e)(2).

NESHAP - 30 TAC §116.111(a)(2)(E)

The Project sources will comply with applicable National Emissions Standards for Hazardous Air Pollutants (NESHAP) Subparts as listed in 40 CFR Part 61. Sources in this application are potentially applicable to the following NESHAP Subparts:

- Subpart A – General Provisions
- Subpart Y – National Emission Standards for Benzene Emissions from Benzene Storage Vessels

NESHAPS for Source Categories - 30 TAC §116.111(a)(2)(F)

The Project sources will comply with applicable NESHAPS for Source Categories (a.k.a. MACT) as listed in 40 CFR Part 63. Sources in this application are potentially applicable to the following NSPS Subparts:

- Subpart A – General Provisions
- Subpart G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater
- Subpart CC – National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries
- Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters

Performance Demonstration - 30 TAC §116.111(a)(2)(G)

The facilities addressed in this permit application will perform as represented in the application and as required by the permit.

Nonattainment Review - 30 TAC §116.111(a)(2)(H)

Brazoria County is a designated nonattainment area for ozone. Applicability of NNSR permitting is detailed in Section 8.

PSD Review – 30 TAC §116.111(a)(2)(I)

Applicability of PSD permitting is detailed in Section 8.

Air Dispersion Modeling – 30 TAC §116.111(a)(2)(J)

A completed Electronic Modeling Evaluation Workbook (EMEW) is being submitted to the agency in electronic (Excel) format.

HAP – 30 TAC §116.111(a)(2)(K)

Affected sources as defined under Rule § 116.15(1) for hazardous air pollutants must comply with Subchapter E. This amendment does not involve the construction or reconstruction of an affected source not already authorized, so these requirements do not apply.

Mass Cap and Trade Allowances – 30 TAC §116.111(a)(2)(L)

The Sweeny Refinery is subject to the Mass Emissions Cap and Trade (MECT) Allowance provisions. This application does involve sources as listed in §117.310 and therefore the application does involve affected facilities as referenced in §101.351(a)(1). Phillips 66 will comply with the requirements of the Mass Cap and Trade program, including obtaining necessary allowances to operate.

Public Notice – 30 TAC §116.111(b)

As detailed in Table 2, the Project emissions do not trigger public notice.

Appendix A
Emission Calculations

Table A-1
Heater Emission Calculations
Phillips 66 Company
September 2021

Basis:
- Emissions are calculated using emission factors from Chapter 1.4 of AP-42.

EPN	Proposed Firing Rate (MMBtu/hr)	Pollutant	Emission Factor (lb/MMBtu)	Emissions (lb/hr)	Emissions (tpy)	Emission Factor Basis
20-36-1	31.50	NOx	0.0970	3.06	13.38	AP-42 Table 1.4-1
		CO	3.70E-02	1.16	5.10	50 ppm @ 3% O2
		VOC	5.39E-03	0.17	0.74	AP-42 Table 1.4-2
		SO_2	1.40E-02	0.44	1.93	AP-42 Table 1.4-2
		$PM/PM_{10}/PM_{2.5}$	7.45E-03	0.23	1.03	AP-42 Table 1.4-2

Table A-2
Fugitive Emission Calculations
Phillips 66 Company
September 2021

Basis:
- Calculations follow TCEQ's Air Permit Technical Guidance document APDG 6422 dated June 2018.
- Emissions are estimated using TCEQ's refinery emission factors.
- Phillips 66 follows the 28MID LDAR program with enhancements (see text for details).
- EPN 15-0-0 flanges are monitored at least annually per Special Condition 35 of Permit 5920A and therefore may receive 75% control credit.
- EPN 11-0-0 & 14-0-0 flanges are monitored at least quarterly per Special Condition 16 of Permit 30513 and therefore may receive 97% control credit.
- Pumps are double sealed and tied to the flare header therefore receive 100% control credit.

EPN: 15-0-0

Equipment Type	Service	Component Count	Refinery Factors (lb/hr/component)	Enhanced 28MID	Operation (hr/yr)	VOC Emissions lb/hr	VOC Emissions tpy
Valves	Light Liquid	17	0.024	97%	8,760	0.01	0.05
Pumps	Light Liquid	2	0.251	100%	8,760	0.00	0.00
Flanges	Light Liquid	120	0.00055	75%	8,760	0.02	0.07
	TOTAL	**139**			**New Component Emissions**	**0.03**	**0.13**
					Existing MRT Limit	3.94	17.27
					Proposed New PTE	**3.97**	**17.40**
					Benzene Concentration	0.03%	
					New Component Max Benzene Emissions	**<0.01**	**<0.01**
					Existing MRT Benzene Limit	0.06	0.26
					Proposed New Benzene PTE	**0.06**	**0.26**

EPN: 11-0-0

Equipment Type	Service	Component Count	Refinery Factors (lb/hr/component)	Enhanced 28MID	Operation (hr/yr)	VOC Emissions lb/hr	VOC Emissions tpy
Valves	Light Liquid	8	0.024	97%	8,760	0.01	0.03
Flanges	Light Liquid	45	0.00055	97%	8,760	0.00	0.00
	TOTAL	**53**			**New Component Emissions**	**0.01**	**0.03**
					Existing MRT Limit	2.38	10.43
					Proposed New PTE	**2.39**	**10.46**
					Benzene Concentration	1.00%	
					New Component Max Benzene Emissions	**<0.01**	**<0.01**
					Existing MRT Benzene Limit	0.03	0.12
					Proposed New Benzene PTE	**0.03**	**0.12**
					H2S Concentration	0.07%	
					New Component Max H2S Emissions	**<0.01**	**<0.01**
					Existing MRT H2S Limit	0.01	0.02
					Proposed New H2S PTE	**0.01**	**0.02**

EPN: 14-0-0

Equipment Type	Service	Component Count	Refinery Factors (lb/hr/component)	Enhanced 28MID	Operation (hr/yr)	VOC Emissions lb/hr	VOC Emissions tpy
Valves	Light Liquid	25	0.024	97%	8,760	0.02	0.08
Flanges	Light Liquid	85	0.00055	97%	8,760	0.00	0.01
	TOTAL	**110**			**New Component Emissions**	**0.02**	**0.08**
					Existing MRT Limit	3.31	14.49
					Proposed New PTE	**3.33**	**14.57**
					Benzene Concentration	0.70%	
					New Component Max Benzene Emissions	**<0.01**	**<0.01**
					Existing MRT Benzene Limit	0.06	0.25
					Proposed New Benzene PTE	**0.06**	**0.25**
					H2S Concentration	0.01%	
					New Component Max H2S Emissions	**<0.01**	**<0.01**
					Existing MRT H2S Limit	0.06	0.27
					Proposed New H2S PTE	**0.06**	**0.27**

EPN: 35-0-0

Equipment Type	Service	Component Count	Refinery Factors (lb/hr/component)	Enhanced 28MID	Operation (hr/yr)	VOC Emissions lb/hr	VOC Emissions tpy
Valves	Light Liquid	20	0.024	97%	8,760	0.01	0.06
Flanges	Light Liquid	28	0.00055	97%	8,760	0.00	0.00
	TOTAL	**48**			**New Component Emissions**	**0.01**	**0.07**
					Existing MRT Limit	3.61	15.82
					Proposed New PTE	**3.62**	**15.89**
					Benzene Concentration	0.82%	
					New Component Max Benzene Emissions	**<0.01**	**<0.01**
					Existing MRT Benzene Limit	0.04	0.17
					Proposed New Benzene PTE	**0.04**	**0.17**

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-6											
				Month												
	EPN (Emission Point Number)				**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**
	FIN (Facility Identification Number)				**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**
	Product:				**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft		56	56	56	56	56	56	56	56	56	56	56	56
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month		195,342	176,438	195,342	189,041	195,342	189,041	195,342	195,342	189,041	195,342	189,041	195,342
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		22.18	20.04	22.18	21.47	22.18	21.47	22.18	22.18	21.47	22.18	21.47	22.18
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_S	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		524.17	521.67	534.17	536.67	541.67	546.67	536.67	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		524.17	521.67	534.17	536.67	541.67	546.67	544.75	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	520.80	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		520.80	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	524.98	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	516.62	516.09	526.19	530.22	536.38	541.55	540.89	543.30	541.63	532.01	522.11	518.30
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R		6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.49	2.48	3.19	3.52	4.06	4.57	4.51	4.77	4.58	3.67	2.88	2.60
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.76	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.24	2.21	2.85	3.14	3.63	4.10	4.04	4.27	4.11	3.28	2.58	2.34
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	42.02	37.67	55.32	59.93	73.06	81.26	82.78	88.50	81.55	64.92	47.62	44.03
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	89.09	79.87	117.29	127.06	154.89	172.28	175.51	187.63	172.91	137.64	100.97	93.35
	Deck Seam Loss	L_D	lb/month	K_S S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	27.52	24.86	27.52	26.63	27.52	26.63	27.52	27.52	26.63	27.52	26.63	27.52
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	158.63	142.40	200.14	213.62	255.46	280.17	285.82	303.65	281.09	230.08	175.22	164.90
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.08	0.07	0.10	0.11	0.13	0.14	0.14	0.15	0.14	0.12	0.09	0.08
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.08**	**0.07**	**0.10**	**0.11**	**0.13**	**0.14**	**0.14**	**0.15**	**0.14**	**0.12**	**0.09**	**0.08**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**1.35**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	524.98	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.76	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.07	0.08	0.09	0.11	0.10	0.11	0.11	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	47.10	42.53	62.86	68.34	83.212	92.47	94.573	101.27	92.964	73.93	53.79	49.38
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	99.86	90.16	133.27	144.89	176.421	196.06	200.507	214.71	197.095	156.74	114.03	104.69
	Deck Seam Loss	L_D	lb/month	K_S S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	80.71	72.90	80.71	78.10	80.708	78.10	80.708	80.71	78.104	80.71	78.10	80.71
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.31	0.31	0.37	0.40	0.457	0.51	0.505	0.53	0.511	0.42	0.34	0.32
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.31	0.31	0.37	0.40	0.457	0.51	0.505	0.53	0.511	0.42	0.34	0.32
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.53**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-27											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	FIN (Facility Identification Number)				**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	Product:				**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft		40	40	40	40	40	40	40	40	40	40	40	40
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month		195,342	176,438	195,342	189,041	195,342	189,041	195,342	195,342	189,041	195,342	189,041	195,342
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		16.52	14.92	16.52	15.99	16.52	15.99	16.52	16.52	15.99	16.52	15.99	16.52
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		527.17	521.17	535.67	536.67	541.67	545.92	548.67	549.17	545.92	538.92	530.77	524.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		527.17	521.17	535.67	536.67	541.67	545.92	548.67	549.17	545.92	538.92	530.77	524.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	522.19	519.95	531.30	534.65	540.83	545.48	547.97	548.18	544.25	536.58	527.54	521.11
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		522.19	519.95	531.30	534.65	540.83	545.48	547.97	548.18	544.25	536.58	527.54	521.11
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	526.69	524.71	536.30	539.76	545.83	550.39	553.03	553.31	549.28	541.68	532.36	525.65
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	517.69	515.20	526.30	529.55	535.83	540.56	542.90	543.05	539.21	531.48	522.72	516.56
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R		6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.58	2.44	3.22	3.49	4.03	4.48	4.74	4.77	4.36	3.65	2.94	2.51
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.88	2.75	3.63	3.93	4.52	5.01	5.31	5.35	4.89	4.11	3.30	2.81
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.31	2.16	2.85	3.09	3.59	4.01	4.23	4.24	3.88	3.24	2.61	2.24
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	8.50	7.22	10.89	11.55	14.10	15.49	17.13	17.23	14.98	12.57	9.52	8.25
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	68.90	58.54	88.29	93.57	114.31	125.53	138.85	139.66	121.39	101.86	77.14	66.90
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	38.82	35.07	38.82	37.57	38.82	37.57	38.82	38.82	37.57	38.82	37.57	38.82
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	116.23	100.84	138.01	142.69	167.24	178.59	194.81	195.72	173.95	153.25	124.23	113.98
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.06	0.05	0.07	0.07	0.08	0.09	0.10	0.10	0.09	0.08	0.06	0.06
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.06**	**0.05**	**0.07**	**0.07**	**0.08**	**0.09**	**0.10**	**0.10**	**0.09**	**0.08**	**0.06**	**0.06**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.90**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	526.69	524.71	536.30	539.76	545.83	550.39	553.03	553.31	549.28	541.68	532.36	525.65
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.88	2.75	3.63	3.93	4.52	5.01	5.31	5.35	4.89	4.11	3.30	2.81
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	9.61	8.23	12.48	13.26	16.160	17.72	19.698	19.85	17.189	14.43	10.85	9.34
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	77.90	66.66	101.11	107.45	130.966	143.60	159.637	160.86	139.305	116.97	87.92	75.72
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	$(0.943 PRm (\text{hours in month}) C_S W_L/D)(1+[N_C F_C]/D)$	113.86	102.84	113.86	110.19	113.861	110.19	113.861	113.86	110.188	113.86	110.19	113.86
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})/(\text{hours in the month})$	0.27	0.26	0.31	0.32	0.351	0.38	0.394	0.40	0.370	0.33	0.29	0.27
	Maximum Hourly Emission Rate	L_T	lb/hr	$L_T+L * (100\%-CE)$	0.27	0.26	0.31	0.32	0.351	0.38	0.394	0.40	0.370	0.33	0.29	0.27
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.40**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-402											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**
	FIN (Facility Identification Number)				**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**
	Product:				**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft		74	74	74	74	74	74	74	74	74	74	74	74
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month		195,342	176,438	195,342	189,041	195,342	189,041	195,342	195,342	189,041	195,342	189,041	195,342
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		27.81	25.12	27.81	26.91	27.81	26.91	27.81	27.81	26.91	27.81	26.91	27.81
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		523.67	522.17	530.17	534.67	542.17	545.42	548.17	548.42	546.72	540.67	528.67	524.42
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		523.67	522.17	530.17	534.67	542.17	545.42	548.17	548.42	546.72	540.67	528.67	524.42
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	520.53	520.89	528.35	533.80	541.52	545.49	548.01	548.07	545.18	538.16	526.63	521.42
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		520.53	520.89	528.35	533.80	541.52	545.49	548.01	548.07	545.18	538.16	526.63	521.42
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	524.67	525.29	533.02	538.62	546.28	550.18	552.85	552.94	549.93	542.91	531.07	525.59
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	516.38	516.49	523.67	528.99	536.77	540.80	543.18	543.20	540.44	533.41	522.19	517.25
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R		6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.48	2.50	3.00	3.42	4.10	4.49	4.75	4.76	4.46	3.79	2.88	2.53
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.74	2.79	3.36	3.83	4.57	4.99	5.29	5.30	4.96	4.23	3.20	2.81
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.23	2.24	2.68	3.05	3.67	4.03	4.26	4.26	4.00	3.39	2.58	2.28
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	55.11	50.27	68.21	76.53	97.50	105.12	116.36	116.55	104.23	88.99	63.00	56.48
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	110.84	101.11	137.17	153.91	196.09	211.40	234.01	234.38	209.62	178.97	126.70	113.58
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	20.73	18.72	20.73	20.06	20.73	20.06	20.73	20.73	20.06	20.73	20.06	20.73
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	186.68	170.10	226.10	250.50	314.32	336.58	371.10	371.65	333.92	288.70	209.76	190.79
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.09	0.09	0.11	0.13	0.16	0.17	0.19	0.19	0.17	0.14	0.10	0.10
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.09**	**0.09**	**0.11**	**0.13**	**0.16**	**0.17**	**0.19**	**0.19**	**0.17**	**0.14**	**0.10**	**0.10**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**1.63**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	524.67	525.29	533.02	538.62	546.28	550.18	552.85	552.94	549.93	542.91	531.07	525.59
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.74	2.79	3.36	3.83	4.57	4.99	5.29	5.30	4.96	4.23	3.20	2.81
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	61.72	56.69	77.43	87.20	110.988	119.53	132.922	133.26	118.684	101.25	71.08	63.28
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	124.11	114.01	155.72	175.36	223.203	240.38	267.314	267.99	238.679	203.63	142.94	127.26
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L$/D)(1+[$N_C F_C$]/D)	60.79	54.91	60.79	58.83	60.790	58.83	60.790	60.79	58.829	60.79	58.83	60.79
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.33	0.34	0.40	0.45	0.531	0.58	0.620	0.62	0.578	0.49	0.38	0.34
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.33	0.34	0.40	0.45	0.531	0.58	0.620	0.62	0.578	0.49	0.38	0.34
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**0.62**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-31											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	FIN (Facility Identification Number)				68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	Product:				Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed
Tank Data	Diameter	D	ft		42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	400	400	400	400	400	400	400	400	400	400	400	400
	Monthly Throughput	Q	bbls/month		269,700	243,600	269,700	261,000	269,700	261,000	269,700	269,700	261,000	269,700	261,000	269,700
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		6.22	5.62	6.22	6.02	6.22	6.02	6.22	6.22	6.02	6.22	6.02	6.22
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		542.67	539.67	553.17	558.17	563.67	565.17	568.67	568.67	569.17	560.17	554.67	552.42
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		542.67	539.67	553.17	558.17	563.67	565.17	568.67	568.67	569.17	560.17	554.67	552.42
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	532.27	531.78	542.65	548.46	554.91	557.81	560.78	560.68	559.14	550.21	542.86	538.87
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		532.27	531.78	542.65	548.46	554.91	557.81	560.78	560.68	559.14	550.21	542.86	538.87
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	536.61	536.38	547.52	553.43	559.80	562.62	565.75	565.70	564.05	555.16	547.52	543.25
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	527.92	527.18	537.79	543.48	550.02	552.99	555.82	555.67	554.23	545.26	538.21	534.50
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
	Vapor Molecular Wt.	M_V	lb/lb-mole		86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R		6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	3.30	3.26	4.21	4.80	5.54	5.90	6.29	6.28	6.07	4.99	4.23	3.85
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	3.65	3.63	4.70	5.36	6.16	6.54	6.99	6.99	6.74	5.57	4.70	4.26
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	2.97	2.92	3.76	4.29	4.97	5.31	5.65	5.63	5.45	4.46	3.79	3.48
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.06	0.08	0.10	0.12	0.13	0.14	0.14	0.13	0.10	0.08	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	43.61	38.87	57.80	65.53	80.91	84.91	95.45	95.17	88.15	71.05	56.25	52.16
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	34.17	30.46	45.29	51.35	63.40	66.54	74.79	74.58	69.08	55.68	44.08	40.87
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	51.19	46.24	51.19	49.54	51.19	49.54	51.19	51.19	49.54	51.19	49.54	51.19
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	128.97	115.57	154.28	166.42	195.50	200.99	221.43	220.95	206.78	177.93	149.87	144.22
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.06	0.06	0.08	0.08	0.10	0.10	0.11	0.11	0.10	0.09	0.07	0.07
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.06**	**0.06**	**0.08**	**0.08**	**0.10**	**0.10**	**0.11**	**0.11**	**0.10**	**0.09**	**0.07**	**0.07**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**1.04**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	536.61	536.38	547.52	553.43	559.80	562.62	565.75	565.70	564.05	555.16	547.52	543.25
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		3.65	3.63	4.70	5.36	6.16	6.54	6.99	6.99	6.74	5.57	4.70	4.26
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.10	0.11	0.14	0.15	0.16	0.16	0.15	0.12	0.10	0.09
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	49.06	44.03	65.99	75.15	92.825	97.35	110.131	109.97	101.426	81.48	63.86	58.74
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	38.44	34.50	51.71	58.89	72.741	76.29	86.303	86.18	79.481	63.85	50.05	46.03
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$	56.49	51.02	56.49	54.67	56.487	54.67	56.487	56.49	54.665	56.49	54.67	56.49
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.19	0.19	0.23	0.26	0.298	0.32	0.340	0.34	0.327	0.27	0.23	0.22
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.19	0.19	0.23	0.26	0.298	0.32	0.340	0.34	0.327	0.27	0.23	0.22
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**0.34**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-205											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	FIN (Facility Identification Number)				**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	Product:				**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**
Tank Data	Diameter	D	ft		133	133	133	133	133	133	133	133	133	133	133	133
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month		866,301	782,466	866,301	838,356	866,301	838,356	866,301	866,301	838,356	866,301	838,356	866,301
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		11.68	10.83	12.11	11.96	11.86	10.64	10.44	10.31	10.22	11.00	10.94	11.55
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		526.67	523.17	532.27	537.67	542.67	547.67	549.17	552.17	548.17	543.92	533.17	524.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.99	517.75	523.96	531.02	539.03	544.30	546.37	546.15	541.18	532.50	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		526.67	523.17	532.27	537.67	542.67	547.67	549.17	552.17	548.17	543.92	533.17	524.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	518.14	519.80	527.01	533.70	540.89	546.11	548.01	548.71	543.93	536.47	525.82	518.36
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		518.14	519.80	527.01	533.70	540.89	546.11	548.01	548.71	543.93	536.47	525.82	518.36
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	522.06	523.98	531.48	538.33	545.49	550.67	552.70	553.41	548.49	541.00	530.03	522.30
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	514.22	515.62	522.54	529.06	536.28	541.55	543.32	544.00	539.37	531.93	521.62	514.43
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Slope	SI	°F/vol %		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88
	C-C Vapor Pressure Equation Constant B	B	°R		7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	0.72	0.75	0.91	1.09	1.30	1.49	1.56	1.58	1.41	1.17	0.88	0.72
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	0.80	0.84	1.02	1.22	1.46	1.66	1.74	1.77	1.58	1.31	0.99	0.80
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	0.64	0.67	0.81	0.96	1.16	1.33	1.39	1.41	1.25	1.04	0.79	0.65
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	42.18	42.06	58.02	70.01	80.86	76.65	74.09	73.37	66.23	61.43	47.28	41.53
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	11.72	11.39	15.55	18.41	22.12	22.75	23.45	23.59	20.64	18.23	13.60	11.67
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	51.60	46.60	51.60	49.93	51.60	49.93	51.60	51.60	49.93	51.60	49.93	51.60
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	105.50	100.05	125.17	138.35	154.57	149.33	149.13	148.55	136.80	131.25	110.81	104.80
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.05
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.05**	**0.05**	**0.06**	**0.07**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.06**	**0.05**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.78**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	522.06	523.98	531.48	538.33	545.49	550.67	552.70	553.41	548.49	541.00	530.03	522.30
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		0.80	0.84	1.02	1.22	1.46	1.66	1.74	1.77	1.58	1.31	0.99	0.80
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	47.07	47.25	65.53	79.23	91.242	86.26	83.625	82.83	74.582	69.28	53.04	46.36
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	13.08	12.79	17.56	20.84	24.956	25.60	26.465	26.63	23.247	20.56	15.26	13.03
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	$(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)$	189.90	171.53	189.90	183.78	189.905	183.78	189.905	189.90	183.779	189.90	183.78	189.90
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.34	0.34	0.37	0.39	0.411	0.41	0.403	0.40	0.391	0.38	0.35	0.34
	Maximum Hourly Emission Rate	L_T	lb/hr	$L_T+L * (100\%-CE)$	0.34	0.34	0.37	0.39	0.411	0.41	0.403	0.40	0.391	0.38	0.35	0.34
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.41**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-409											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	FIN (Facility Identification Number)				**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	Product:				**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft		33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month		407,671	368,219	407,671	394,521	407,671	394,521	407,671	407,671	394,521	407,671	394,521	407,671
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		19.19	17.34	19.19	18.58	19.19	18.58	19.19	19.19	18.58	19.19	18.58	19.19
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_S	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		522.17	523.42	528.67	532.67	540.17	545.37	548.17	548.82	546.17	539.42	528.17	523.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		522.17	523.42	528.67	532.67	540.17	545.37	548.17	548.82	546.17	539.42	528.17	523.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	519.29	521.49	527.15	532.32	540.03	545.27	547.81	548.12	544.58	537.07	526.09	520.67
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		519.29	521.49	527.15	532.32	540.03	545.27	547.81	548.12	544.58	537.07	526.09	520.67
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	523.64	526.10	532.01	537.30	544.93	550.09	552.78	553.14	549.49	542.03	530.75	525.06
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	514.94	516.88	522.28	527.34	535.14	540.45	542.83	543.10	539.66	532.12	521.43	516.29
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R		5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.64	2.77	3.11	3.45	4.02	4.45	4.67	4.70	4.39	3.80	3.04	2.72
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.89	3.04	3.43	3.81	4.42	4.87	5.12	5.16	4.82	4.18	3.35	2.98
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.41	2.51	2.81	3.12	3.65	4.05	4.25	4.27	3.99	3.44	2.76	2.48
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	24.88	23.65	29.83	32.51	40.09	43.73	47.89	48.23	43.04	37.46	28.18	25.69
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	76.28	72.51	91.49	99.70	122.92	134.10	146.85	147.90	131.98	114.88	86.41	78.78
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	99.56	89.93	99.56	96.35	99.56	96.35	99.56	99.56	96.35	99.56	96.35	99.56
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	200.72	186.09	220.88	228.56	262.57	274.18	294.30	295.69	271.37	251.91	210.93	204.03
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.10	0.09	0.11	0.11	0.13	0.14	0.15	0.15	0.14	0.13	0.11	0.10
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.10**	**0.09**	**0.11**	**0.11**	**0.13**	**0.14**	**0.15**	**0.15**	**0.14**	**0.13**	**0.11**	**0.10**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**1.45**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	523.64	526.10	532.01	537.30	544.93	550.09	552.78	553.14	549.49	542.03	530.75	525.06
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.89	3.04	3.43	3.81	4.42	4.87	5.12	5.16	4.82	4.18	3.35	2.98
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.06
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	27.52	26.30	33.36	36.44	44.837	48.84	53.682	54.13	48.168	41.96	31.37	28.43
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	84.38	80.66	102.31	111.74	137.492	149.76	164.616	165.99	147.707	128.66	96.18	87.19
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$	124.64	112.58	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.32	0.33	0.35	0.37	0.413	0.44	0.461	0.46	0.440	0.40	0.34	0.32
	Maximum Hourly Emission Rate	L_T	lb/hr	$L_T+L * (100\%-CE)$	0.32	0.33	0.35	0.37	0.413	0.44	0.461	0.46	0.440	0.40	0.34	0.32
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.46**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-410											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	FIN (Facility Identification Number)				**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	Product:				**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft		73	73	73	73	73	73	73	73	73	73	73	73
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month		407,671	368,219	407,671	394,521	407,671	394,521	407,671	407,671	394,521	407,671	394,521	407,671
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		35.54	32.10	35.54	34.40	35.54	34.40	35.54	35.54	34.40	35.54	34.40	35.54
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BIN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BIX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		534.67	532.37	536.17	543.67	546.17	547.17	549.17	550.17	547.17	542.17	536.37	533.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		534.67	532.37	536.17	543.67	546.17	547.17	549.17	550.17	547.17	542.17	536.37	533.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	527.76	527.59	532.30	539.72	544.16	546.65	548.68	549.23	545.49	539.16	531.70	527.51
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		527.76	527.59	532.30	539.72	544.16	546.65	548.68	549.23	545.49	539.16	531.70	527.51
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	531.89	531.98	536.96	544.53	548.91	551.34	553.51	554.09	550.23	543.90	536.13	531.66
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	523.63	523.20	527.64	534.92	539.42	541.97	543.85	544.37	540.76	534.42	527.27	523.35
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BIN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R		5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.15	3.14	3.45	4.00	4.36	4.57	4.75	4.80	4.47	3.95	3.41	3.13
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.42	3.43	3.79	4.39	4.77	4.99	5.19	5.25	4.89	4.33	3.72	3.41
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.89	2.87	3.14	3.64	3.97	4.18	4.33	4.37	4.08	3.60	3.12	2.88
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.09	0.08	0.07	0.06
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	65.94	59.33	73.18	83.93	96.00	98.35	106.47	107.82	95.78	85.63	69.85	65.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	171.84	154.60	190.71	218.72	250.17	256.29	277.44	280.96	249.59	223.14	182.03	170.83
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	44.90	40.56	44.90	43.45	44.90	43.45	44.90	44.90	43.45	44.90	43.45	44.90
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	282.69	254.49	308.80	346.11	391.08	398.10	428.81	433.68	388.82	353.67	295.34	281.29
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.14	0.13	0.15	0.17	0.20	0.20	0.21	0.22	0.19	0.18	0.15	0.14
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.14**	**0.13**	**0.15**	**0.17**	**0.20**	**0.20**	**0.21**	**0.22**	**0.19**	**0.18**	**0.15**	**0.14**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**2.08**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	531.89	531.98	536.96	544.53	548.91	551.34	553.51	554.09	550.23	543.90	536.13	531.66
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.42	3.43	3.79	4.39	4.77	4.99	5.19	5.25	4.89	4.33	3.72	3.41
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.07	0.09	0.10	0.10	0.11	0.11	0.10	0.09	0.07	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	72.50	65.62	81.43	93.68	107.034	109.52	118.967	120.58	106.758	95.43	77.31	72.12
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	188.94	170.99	212.20	244.11	278.914	285.39	310.011	314.21	278.195	248.68	201.46	187.94
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	56.19	50.75	56.19	54.38	56.193	54.38	56.193	56.19	54.380	56.19	54.38	56.19
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.43	0.43	0.47	0.54	0.594	0.62	0.652	0.66	0.610	0.54	0.46	0.43
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.43	0.43	0.47	0.54	0.594	0.62	0.652	0.66	0.610	0.54	0.46	0.43
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.66**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-412											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	FIN (Facility Identification Number)				**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	Product:				**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft		27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month		407,671	368,219	407,671	394,521	407,671	394,521	407,671	407,671	394,521	407,671	394,521	407,671
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		18.90	17.07	18.90	18.29	18.90	18.29	18.90	18.90	18.29	18.90	18.29	18.90
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		521.67	523.42	531.17	535.72	541.67	546.17	548.17	550.17	546.17	537.67	529.67	522.92
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		521.67	523.42	531.17	535.72	541.67	546.17	548.17	550.17	546.17	537.67	529.67	522.92
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	519.02	521.53	528.77	534.29	541.02	545.81	547.84	549.01	544.62	536.01	527.08	520.24
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		519.02	521.53	528.77	534.29	541.02	545.81	547.84	549.01	544.62	536.01	527.08	520.24
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	523.33	526.10	533.61	539.24	545.89	550.61	552.79	554.01	549.50	540.93	531.70	524.59
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	514.70	516.96	523.94	529.34	536.15	541.02	542.89	544.02	539.74	531.09	522.46	515.89
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R		5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.63	2.77	3.21	3.59	4.10	4.50	4.67	4.78	4.39	3.72	3.11	2.70
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.87	3.04	3.54	3.96	4.50	4.92	5.13	5.24	4.82	4.09	3.41	2.95
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.40	2.51	2.91	3.25	3.73	4.10	4.25	4.34	4.00	3.37	2.82	2.46
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	5.53	5.30	6.93	7.62	9.18	9.91	10.73	11.02	9.65	8.19	6.45	5.69
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	74.65	71.48	93.54	102.72	123.82	133.71	144.74	148.68	130.11	110.41	87.06	76.81
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	121.70	109.92	121.70	117.77	121.70	117.77	121.70	121.70	117.77	121.70	117.77	121.70
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	201.88	186.70	222.17	228.11	254.69	261.39	277.16	281.40	257.52	240.29	211.29	204.20
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.10	0.09	0.11	0.11	0.13	0.13	0.14	0.14	0.13	0.12	0.11	0.10
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.10**	**0.09**	**0.11**	**0.11**	**0.13**	**0.13**	**0.14**	**0.14**	**0.13**	**0.12**	**0.11**	**0.10**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**1.41**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	523.33	526.10	533.61	539.24	545.89	550.61	552.79	554.01	549.50	540.93	531.70	524.59
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.87	3.04	3.54	3.96	4.50	4.92	5.13	5.24	4.82	4.09	3.41	2.95
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	6.12	5.89	7.75	8.53	10.261	11.07	12.022	12.36	10.787	9.16	7.18	6.30
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	82.51	79.44	104.51	115.04	138.417	149.26	162.162	166.79	145.509	123.56	96.82	84.94
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	152.36	137.61	152.36	147.44	152.359	147.44	152.359	152.36	147.444	152.36	147.44	152.36
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.32	0.33	0.36	0.38	0.405	0.43	0.439	0.45	0.422	0.38	0.35	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.32	0.33	0.36	0.38	0.405	0.43	0.439	0.45	0.422	0.38	0.35	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.45**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-413											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**
	FIN (Facility Identification Number)				**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**
	Product:				**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft		33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month		407,671	368,219	407,671	394,521	407,671	394,521	407,671	407,671	394,521	407,671	394,521	407,671
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		25.01	22.59	25.01	24.21	25.01	24.21	25.01	25.01	24.21	25.01	24.21	25.01
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		523.67	525.77	532.67	536.17	541.67	545.17	547.72	549.17	545.42	538.17	530.17	524.92
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		523.67	525.77	532.67	536.17	541.67	545.17	547.72	549.17	545.42	538.17	530.17	524.92
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	520.24	522.98	529.67	534.53	540.98	545.15	547.52	548.34	544.10	536.28	527.35	521.46
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		520.24	522.98	529.67	534.53	540.98	545.15	547.52	548.34	544.10	536.28	527.35	521.46
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	524.59	527.58	534.54	539.51	545.88	549.96	552.49	553.36	549.01	541.24	532.01	525.85
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	515.89	518.37	524.81	529.55	536.08	540.33	542.55	543.32	539.19	531.33	522.69	517.08
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R		5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.70	2.85	3.27	3.61	4.10	4.44	4.64	4.72	4.35	3.74	3.12	2.77
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.95	3.14	3.61	3.98	4.50	4.86	5.10	5.18	4.78	4.12	3.43	3.03
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.46	2.59	2.96	3.27	3.72	4.04	4.22	4.29	3.96	3.39	2.84	2.52
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	25.43	24.48	31.62	34.20	40.96	43.60	47.58	48.48	42.58	36.79	29.01	26.17
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	101.62	97.80	126.35	136.68	163.69	174.24	190.11	193.70	170.13	147.02	115.92	104.55
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	99.56	89.93	99.56	96.35	99.56	96.35	99.56	99.56	96.35	99.56	96.35	99.56
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	226.61	212.20	257.54	267.23	304.22	314.19	337.25	341.74	309.05	283.38	241.28	230.28
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.11	0.11	0.13	0.13	0.15	0.16	0.17	0.17	0.15	0.14	0.12	0.12
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.11**	**0.11**	**0.13**	**0.13**	**0.15**	**0.16**	**0.17**	**0.17**	**0.15**	**0.14**	**0.12**	**0.12**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**1.66**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	524.59	527.58	534.54	539.51	545.88	549.96	552.49	553.36	549.01	541.24	532.01	525.85
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.95	3.14	3.61	3.98	4.50	4.86	5.10	5.18	4.78	4.12	3.43	3.03
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	28.13	27.22	35.35	38.33	45.821	48.70	53.331	54.41	47.647	41.21	32.29	28.96
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	112.39	108.77	141.27	153.17	183.097	194.59	213.109	217.41	190.393	164.66	129.02	115.71
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	124.64	112.58	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.36	0.37	0.40	0.43	0.475	0.51	0.526	0.53	0.498	0.44	0.39	0.36
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.36	0.37	0.40	0.43	0.475	0.51	0.526	0.53	0.498	0.44	0.39	0.36
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.53**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-411											
				Month												
	EPN (Emission Point Number)				**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	FIN (Facility Identification Number)				**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	Product:				**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**
Tank Data	Diameter	D	ft		33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	358	358	358	358	358	358	358	358	358	358	358	358
	Monthly Throughput	Q	bbls/month		131,644	118,904	131,644	127,397	131,644	127,397	131,644	131,644	127,397	131,644	127,397	131,644
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		25.01	22.59	25.01	24.21	25.01	24.21	25.01	25.01	24.21	25.01	24.21	25.01
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		515.17	529.67	529.67	531.67	533.67	533.67	539.67	543.67	537.67	532.67	528.17	514.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		515.17	529.67	529.67	531.67	537.50	542.70	544.75	544.64	539.87	532.67	528.17	514.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	514.86	525.43	527.77	531.68	538.34	543.58	545.64	545.47	540.59	532.80	526.08	514.98
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		514.86	525.43	527.77	531.68	538.34	543.58	545.64	545.47	540.59	532.80	526.08	514.98
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	519.22	530.04	532.64	536.67	543.25	548.40	550.62	550.50	545.51	537.77	530.75	519.38
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	510.50	520.81	522.89	526.69	533.44	538.75	540.67	540.44	535.67	527.84	521.41	510.59
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Liquid Density	W_L	lb/gal		7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R		7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	1.02	1.36	1.45	1.61	1.92	2.19	2.31	2.30	2.03	1.66	1.39	1.02
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	1.15	1.54	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.57	1.16
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	0.90	1.20	1.27	1.41	1.69	1.94	2.03	2.02	1.79	1.46	1.22	0.90
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	9.62	11.77	13.92	15.03	18.68	20.86	22.80	22.70	19.22	16.02	12.84	9.66
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	38.45	47.02	55.61	60.04	74.63	83.36	91.12	90.70	76.82	64.02	51.32	38.58
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	41.79	37.75	41.79	40.45	41.79	40.45	41.79	41.79	40.45	41.79	40.45	41.79
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	89.86	96.54	111.32	115.52	135.10	144.67	155.72	155.19	136.49	121.84	104.60	90.03
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.07	0.06	0.05	0.05
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.04**	**0.05**	**0.06**	**0.06**	**0.07**	**0.07**	**0.08**	**0.08**	**0.07**	**0.06**	**0.05**	**0.05**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.73**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	519.22	530.04	532.64	536.67	543.25	548.40	550.62	550.50	545.51	537.77	530.75	519.38
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		1.15	1.54	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.57	1.16
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	10.91	13.40	15.95	17.26	21.363	23.79	26.101	26.02	21.989	18.38	14.64	10.96
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	43.61	53.54	63.73	68.96	85.364	95.05	104.296	103.96	87.867	73.45	58.51	43.81
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	84.56	76.38	84.56	81.83	84.562	81.83	84.562	84.56	81.834	84.56	81.83	84.56
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.19	0.21	0.22	0.23	0.257	0.28	0.289	0.29	0.266	0.24	0.22	0.19
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.19	0.21	0.22	0.23	0.257	0.28	0.289	0.29	0.266	0.24	0.22	0.19
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.29**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-216											
				Month	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	FIN (Facility Identification Number)				**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	Product:				**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**
Tank Data	Diameter	D	ft		100	100	100	100	100	100	100	100	100	100	100	100
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month		67,945	61,370	67,945	65,753	67,945	65,753	67,945	67,945	65,753	67,945	65,753	67,945
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		60.51	61.07	70.60	74.33	64.71	45.13	37.04	35.12	37.78	46.64	50.95	57.81
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		519.67	519.92	526.17	530.67	537.67	542.67	545.67	546.17	543.67	536.67	527.02	520.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.89	517.63	523.81	530.83	538.82	544.07	546.14	545.94	541.00	532.35	522.01	515.11
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		519.67	519.92	526.17	530.83	538.82	544.07	546.14	546.17	543.67	536.67	527.02	520.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	516.04	518.82	525.18	531.65	539.73	545.03	547.11	546.91	542.58	534.29	523.98	517.16
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		516.04	518.82	525.18	531.65	539.73	545.03	547.11	546.91	542.58	534.29	523.98	517.16
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	520.06	523.10	529.74	536.36	544.40	549.65	551.86	551.68	547.22	538.92	528.29	521.20
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	512.03	514.55	520.63	526.94	535.06	540.42	542.36	542.13	537.94	529.66	519.67	513.13
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Liquid Density	W_L	lb/gal		7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92
	C-C Vapor Pressure Equation Constant B	B	°R		8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	0.29	0.32	0.39	0.47	0.60	0.70	0.74	0.73	0.65	0.51	0.38	0.31
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	0.33	0.37	0.45	0.54	0.68	0.79	0.84	0.84	0.74	0.58	0.43	0.35
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	0.26	0.28	0.34	0.41	0.52	0.61	0.64	0.64	0.57	0.45	0.33	0.27
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	14.79	15.36	21.13	25.86	31.33	30.20	29.48	28.51	25.74	22.80	17.14	14.99
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	28.32	31.19	43.90	56.22	62.17	50.56	44.04	41.51	39.43	38.17	30.54	28.03
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	6.96	6.28	6.96	6.73	6.96	6.73	6.96	6.96	6.73	6.96	6.73	6.96
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	50.06	52.84	71.99	88.82	100.46	87.49	80.48	76.99	71.90	67.93	54.41	49.97
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.03**	**0.03**	**0.04**	**0.04**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.03**	**0.03**	**0.02**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**0.43**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	520.06	523.10	529.74	536.36	544.40	549.65	551.86	551.68	547.22	538.92	528.29	521.20
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		0.33	0.37	0.45	0.54	0.68	0.79	0.84	0.84	0.74	0.58	0.43	0.35
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	16.77	17.54	24.27	29.75	35.877	34.45	33.738	32.65	29.409	26.14	19.55	17.00
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	32.12	35.62	50.42	64.68	71.185	57.68	50.390	47.54	45.060	43.76	34.83	31.79
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	$(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)$	326.54	294.94	326.54	316.01	326.541	316.01	326.541	326.54	316.007	326.54	316.01	326.54
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.50	0.52	0.54	0.57	0.583	0.57	0.552	0.55	0.542	0.53	0.51	0.50
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.50	0.52	0.54	0.57	0.583	0.57	0.552	0.55	0.542	0.53	0.51	0.50
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**0.58**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-207											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**
	FIN (Facility Identification Number)				**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**
	Product:				**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**	**Light Straight Run Gasoline (PTE)**
Tank Data	Diameter	D	ft		134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125
	Monthly Throughput	Q	bbls/month		254,795	230,137	254,795	246,575	254,795	246,575	254,795	254,795	246,575	254,795	246,575	254,795
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		62.22	62.63	72.33	76.01	66.43	46.76	38.70	36.77	39.39	48.32	52.59	59.52
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		521.17	521.67	530.42	536.17	542.92	545.67	549.67	550.17	546.67	538.67	530.17	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		521.17	521.67	530.42	536.17	542.92	545.67	549.67	550.17	546.67	538.67	530.17	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	516.49	519.35	526.46	533.25	540.96	545.51	548.16	548.11	543.48	534.89	524.92	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		516.49	519.35	526.46	533.25	540.96	545.51	548.16	548.11	543.48	534.89	524.92	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	520.41	523.53	530.93	537.88	545.57	550.07	552.85	552.81	548.04	539.43	529.13	522.60
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	512.57	515.17	521.99	528.62	536.36	540.95	543.48	543.40	538.92	530.36	520.72	514.73
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
	Slope	SI	°F/vol %		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.34	13.34	13.34	13.34	13.34	13.34	13.34	13.34	13.34	13.34	13.34	13.34
	C-C Vapor Pressure Equation Constant B	B	°R		6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25	6,222.25
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.66	3.91	4.59	5.34	6.30	6.94	7.33	7.32	6.65	5.53	4.44	3.84
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	4.00	4.30	5.07	5.90	6.95	7.63	8.07	8.07	7.31	6.10	4.87	4.21
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.33	3.54	4.15	4.82	5.71	6.30	6.65	6.64	6.03	5.01	4.03	3.51
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.09	0.11	0.14	0.16	0.17	0.17	0.15	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	206.22	211.98	290.15	351.39	415.23	390.70	388.24	376.98	337.17	299.53	234.36	213.94
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	303.09	329.47	460.99	582.98	631.19	505.76	452.12	428.88	401.98	387.73	321.58	307.36
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	15.06	13.60	15.06	14.58	15.06	14.58	15.06	15.06	14.58	15.06	14.58	15.06
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	524.37	555.06	766.20	948.94	1,061.49	911.04	855.42	820.92	753.72	702.32	570.51	536.36
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.26	0.28	0.38	0.47	0.53	0.46	0.43	0.41	0.38	0.35	0.29	0.27
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.26**	**0.28**	**0.38**	**0.47**	**0.53**	**0.46**	**0.43**	**0.41**	**0.38**	**0.35**	**0.29**	**0.27**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**4.50**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	520.41	523.53	530.93	537.88	545.57	550.07	552.85	552.81	548.04	539.43	529.13	522.60
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		4.00	4.30	5.07	5.90	6.95	7.63	8.07	8.07	7.31	6.10	4.87	4.21
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.08	0.09	0.11	0.13	0.16	0.18	0.20	0.20	0.17	0.13	0.10	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	229.17	237.26	327.64	399.37	473.414	446.37	446.479	433.71	384.611	339.72	262.67	237.86
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	336.81	368.76	520.55	662.59	719.636	577.82	519.946	493.42	458.535	439.77	360.42	341.73
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	93.46	84.41	93.46	90.44	93.458	90.44	93.458	93.46	90.444	93.46	90.44	93.46
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.89	1.03	1.27	1.60	1.729	1.55	1.425	1.37	1.297	1.17	0.99	0.90
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.89	1.03	1.27	1.60	1.729	1.55	1.425	1.37	1.297	1.17	0.99	0.90
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**1.73**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-85											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85
	FIN (Facility Identification Number)				68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85	68-95-85
	Product:				Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane	Off-Spec Cyclohexane
Tank Data	Diameter	D	ft		25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month		103,498	93,482	103,498	100,160	103,498	100,160	103,498	103,498	100,160	103,498	100,160	103,498
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		527.67	523.92	535.67	539.42	541.92	543.67	544.67	558.17	555.67	548.67	539.17	529.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		527.67	523.92	535.67	539.42	541.92	543.67	544.75	558.17	555.67	548.67	539.17	529.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	522.60	521.71	531.41	536.44	541.04	544.13	545.59	553.84	550.38	542.72	532.84	523.99
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		522.60	521.71	531.41	536.44	541.04	544.13	545.59	553.84	550.38	542.72	532.84	523.99
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	527.04	526.40	536.36	541.49	546.00	549.01	550.62	558.93	555.37	547.76	537.60	528.47
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	518.16	517.01	526.46	531.39	536.08	539.26	540.56	548.76	545.40	537.67	528.09	519.51
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
	Vapor Molecular Wt.	M_V	lb/lb-mole		84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
	Liquid Density	W_L	lb/gal		6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	Reid Vapor Pressure	RVP	psi		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.23	14.23	14.23	14.23	14.23	14.23	14.23	14.23	14.23	14.23	14.23	14.23
	C-C Vapor Pressure Equation Constant B	B	°R		7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59	7,175.59
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	1.65	1.61	2.07	2.35	2.63	2.84	2.94	3.58	3.30	2.74	2.15	1.71
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	1.85	1.82	2.34	2.66	2.97	3.19	3.31	4.02	3.71	3.10	2.42	1.92
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	1.47	1.42	1.82	2.07	2.33	2.52	2.60	3.17	2.93	2.42	1.90	1.52
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.06	0.05	0.04	0.03
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	11.73	10.33	14.96	16.61	19.45	20.46	21.99	27.46	24.21	20.35	15.06	12.19
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	25.03	22.05	31.93	35.45	41.51	43.67	46.93	58.61	51.68	43.43	32.14	26.02
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	39.49	35.67	39.49	38.22	39.49	38.22	39.49	39.49	38.22	39.49	38.22	39.49
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	76.25	68.06	86.38	90.28	100.45	102.35	108.42	125.56	114.11	103.27	85.42	77.70
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.04	0.03	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.05	0.04	0.04
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.04**	**0.03**	**0.04**	**0.05**	**0.05**	**0.05**	**0.05**	**0.06**	**0.06**	**0.05**	**0.04**	**0.04**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**0.57**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	527.04	526.40	536.36	541.49	546.00	549.01	550.62	558.93	555.37	547.76	537.60	528.47
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		1.85	1.82	2.34	2.66	2.97	3.19	3.31	4.02	3.71	3.10	2.42	1.92
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.08	0.07	0.06	0.05	0.04
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	13.27	11.77	17.12	19.05	22.234	23.33	25.177	31.49	27.686	23.31	17.14	13.80
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	28.32	25.13	36.55	40.66	47.460	49.80	53.742	67.22	59.097	49.76	36.59	29.45
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L$/D)(1+[$N_C F_C$]/D)	218.60	197.45	218.60	211.55	218.605	211.55	218.605	218.60	211.553	218.60	211.55	218.60
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.35	0.35	0.37	0.38	0.387	0.40	0.400	0.43	0.414	0.39	0.37	0.35
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.35	0.35	0.37	0.38	0.387	0.40	0.400	0.43	0.414	0.39	0.37	0.35
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**0.43**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-86											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86
	FIN (Facility Identification Number)				68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86	68-95-86
	Product:				Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene
Tank Data	Diameter	D	ft		25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	520	520	520	520	520	520	520	520	520	520	520	520
	Monthly Throughput	Q	bbls/month		84,932	76,712	84,932	82,192	84,932	82,192	84,932	84,932	82,192	84,932	82,192	84,932
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		536.67	538.67	543.17	544.17	548.67	551.67	552.17	549.67	554.17	543.67	545.17	543.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		536.67	538.67	543.17	544.17	548.67	551.67	552.17	549.67	554.17	543.67	545.17	543.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	528.20	530.89	536.07	539.40	545.25	549.11	550.21	548.55	549.45	539.60	536.58	532.70
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		528.20	530.89	536.07	539.40	545.25	549.11	550.21	548.55	549.45	539.60	536.58	532.70
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	532.65	535.58	541.02	544.45	550.20	553.99	555.24	553.64	554.44	544.65	541.33	537.18
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	523.76	526.19	531.12	534.34	540.29	544.24	545.18	543.46	544.46	534.56	531.82	528.22
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal		7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R		7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	1.47	1.58	1.81	1.97	2.28	2.51	2.58	2.48	2.53	1.98	1.83	1.66
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	1.65	1.79	2.05	2.24	2.58	2.83	2.92	2.81	2.86	2.25	2.07	1.86
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	1.30	1.39	1.59	1.73	2.01	2.23	2.28	2.18	2.24	1.74	1.62	1.47
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.03
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	9.64	9.39	12.01	12.74	15.44	16.60	17.67	16.90	16.75	13.24	11.79	10.94
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	20.59	20.05	25.64	27.19	32.97	35.44	37.72	36.07	35.76	28.26	25.16	23.35
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	36.72	33.17	36.72	35.54	36.72	35.54	36.72	36.72	35.54	36.72	35.54	36.72
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	66.96	62.61	74.37	75.46	85.14	87.58	92.11	89.69	88.06	78.22	72.48	71.01
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.03**	**0.03**	**0.04**	**0.04**	**0.04**	**0.04**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**0.47**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	532.65	535.58	541.02	544.45	550.20	553.99	555.24	553.64	554.44	544.65	541.33	537.18
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		1.65	1.79	2.05	2.24	2.58	2.83	2.92	2.81	2.86	2.25	2.07	1.86
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.04	0.04	0.03
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	10.92	10.70	13.76	14.63	17.671	18.94	20.243	19.39	19.171	15.20	13.43	12.38
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	23.31	22.84	29.38	31.22	37.719	40.43	43.209	41.39	40.922	32.44	28.67	26.43
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	$(0.943\ PRm\ (\text{hours in month})\ C_S W_L/D)(1+[N_C F_C]/D)$	167.28	151.09	167.28	161.89	167.283	161.89	167.283	167.28	161.886	167.28	161.89	167.28
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})/(\text{hours in the month})$	0.27	0.27	0.28	0.29	0.299	0.31	0.310	0.31	0.308	0.29	0.28	0.28
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.27	0.27	0.28	0.29	0.299	0.31	0.310	0.31	0.308	0.29	0.28	0.28
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**0.31**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-87											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**
	FIN (Facility Identification Number)				**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**
	Product:				**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**
Tank Data	Diameter	D	ft		25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	520	520	520	520	520	520	520	520	520	520	520	520
	Monthly Throughput	Q	bbls/month		84,932	76,712	84,932	82,192	84,932	82,192	84,932	84,932	82,192	84,932	82,192	84,932
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		527.10	527.65	535.33	539.71	545.74	550.68	552.87	555.06	550.68	543.00	533.13	526.83
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		527.10	527.65	535.33	539.71	545.74	550.68	552.87	555.06	550.68	543.00	533.13	526.83
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	522.25	524.03	531.19	536.62	543.42	548.49	550.64	551.91	547.28	539.19	529.08	522.53
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		522.25	524.03	531.19	536.62	543.42	548.49	550.64	551.91	547.28	539.19	529.08	522.53
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	526.69	528.73	536.14	541.68	548.38	553.37	555.67	557.00	552.26	544.23	533.84	527.01
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	517.81	519.34	526.24	531.57	538.46	543.62	545.61	546.82	542.29	534.15	524.33	518.05
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal		7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R		7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	1.25	1.31	1.59	1.83	2.18	2.48	2.61	2.69	2.40	1.96	1.51	1.26
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	1.41	1.49	1.81	2.09	2.47	2.79	2.95	3.04	2.72	2.23	1.71	1.42
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	1.11	1.16	1.40	1.61	1.92	2.19	2.30	2.37	2.12	1.72	1.32	1.12
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	8.15	7.74	10.49	11.80	14.70	16.33	17.88	18.50	15.79	13.09	9.57	8.21
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	17.39	16.53	22.39	25.19	31.37	34.85	38.17	39.50	33.71	27.93	20.42	17.53
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	36.72	33.17	36.72	35.54	36.72	35.54	36.72	36.72	35.54	36.72	35.54	36.72
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	62.27	57.44	69.60	72.53	82.79	86.71	92.77	94.73	85.05	77.75	65.53	62.47
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.03**	**0.03**	**0.03**	**0.04**	**0.04**	**0.04**	**0.05**	**0.05**	**0.04**	**0.04**	**0.03**	**0.03**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.45**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	526.69	528.73	536.14	541.68	548.38	553.37	555.67	557.00	552.26	544.23	533.84	527.01
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		1.41	1.49	1.81	2.09	2.47	2.79	2.95	3.04	2.72	2.23	1.71	1.42
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.05	0.04	0.03	0.03
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	9.24	8.84	12.03	13.56	16.819	18.63	20.482	21.23	18.079	15.02	10.93	9.33
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	19.73	18.87	25.68	28.94	35.902	39.76	43.719	45.31	38.590	32.07	23.32	19.91
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$	167.28	151.09	167.28	161.89	167.283	161.89	167.283	167.28	161.886	167.28	161.89	167.28
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.26	0.27	0.28	0.28	0.296	0.31	0.311	0.31	0.304	0.29	0.27	0.26
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.26	0.27	0.28	0.28	0.296	0.31	0.311	0.31	0.304	0.29	0.27	0.26
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.31**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-66											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**
	FIN (Facility Identification Number)				**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**	**68-95-66**
	Product:				**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft		150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month		2,225,205	2,009,863	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		57.82	58.58	67.82	71.60	61.98	42.66	34.60	32.70	35.39	44.08	48.42	55.14
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_S	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		526.17	527.67	539.17	542.67	550.17	552.17	554.67	554.67	552.17	547.17	538.92	531.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$	513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		526.17	527.67	539.17	542.67	550.17	552.17	554.67	554.67	552.17	547.17	538.92	531.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	517.99	521.15	529.08	535.20	543.14	547.46	549.66	549.46	545.13	537.44	527.55	520.46
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		517.99	521.15	529.08	535.20	543.14	547.46	549.66	549.46	545.13	537.44	527.55	520.46
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	517.99	521.15	529.08	535.20	543.14	547.46	549.66	549.46	545.13	537.44	527.55	520.46
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	517.99	521.15	529.08	535.20	543.14	547.46	549.66	549.46	545.13	537.44	527.55	520.46
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.75	3.99	4.67	5.25	6.09	6.59	6.85	6.83	6.31	5.47	4.53	3.94
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.75	3.99	4.67	5.25	6.09	6.59	6.85	6.83	6.31	5.47	4.53	3.94
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.75	3.99	4.67	5.25	6.09	6.59	6.85	6.83	6.31	5.47	4.53	3.94
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.16	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	230.52	236.27	321.51	373.77	430.82	395.47	384.02	371.60	341.79	321.16	261.12	239.02
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	281.24	306.86	427.89	521.77	545.86	417.21	357.18	335.87	327.08	338.81	294.67	284.23
	Deck Seam Loss	L_D	lb/month	$K_S S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	117.51	106.14	117.51	113.72	117.51	113.72	117.51	117.51	113.72	117.51	113.72	117.51
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	629.27	649.27	866.92	1,009.25	1,094.18	926.39	858.70	824.99	782.59	777.48	669.51	640.76
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.31	0.32	0.43	0.50	0.55	0.46	0.43	0.41	0.39	0.39	0.33	0.32
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.31**	**0.32**	**0.43**	**0.50**	**0.55**	**0.46**	**0.43**	**0.41**	**0.39**	**0.39**	**0.33**	**0.32**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**4.86**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	517.99	521.15	529.08	535.20	543.14	547.46	549.66	549.46	545.13	537.44	527.55	520.46
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.75	3.99	4.67	5.25	6.09	6.59	6.85	6.83	6.31	5.47	4.53	3.94
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.16	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	230.52	236.27	321.51	373.77	430.817	395.47	384.017	371.60	341.794	321.16	261.12	239.02
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	281.24	306.86	427.89	521.77	545.857	417.21	357.177	335.87	327.077	338.81	294.67	284.23
	Deck Seam Loss	L_D	lb/month	$K_S S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$	86.44	78.07	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.80	0.92	1.12	1.36	1.429	1.24	1.112	1.07	1.045	1.00	0.89	0.82
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.80	0.92	1.12	1.36	1.429	1.24	1.112	1.07	1.045	1.00	0.89	0.82
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**1.43**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-74											
				Month	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**
	FIN (Facility Identification Number)				**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**
	Product:				**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft		150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month		2,225,205	2,009,863	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		10.95	10.11	11.30	11.12	11.10	10.07	9.95	9.85	9.73	10.40	10.31	10.85
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		524.17	530.17	532.17	531.67	535.67	541.17	542.67	543.67	542.17	534.67	530.17	526.42
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		524.17	530.17	532.17	531.67	538.98	544.25	546.32	546.10	542.17	534.67	530.17	526.42
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	517.39	521.90	526.98	531.90	539.78	545.08	547.16	546.89	542.13	533.69	524.92	518.89
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		517.39	521.90	526.98	531.90	539.78	545.08	547.16	546.89	542.13	533.69	524.92	518.89
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	517.39	521.90	526.98	531.90	539.78	545.08	547.16	546.89	542.13	533.69	524.92	518.89
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	517.39	521.90	526.98	531.90	539.78	545.08	547.16	546.89	542.13	533.69	524.92	518.89
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.70	4.05	4.48	4.93	5.72	6.31	6.55	6.52	5.97	5.10	4.30	3.81
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.70	4.05	4.48	4.93	5.72	6.31	6.55	6.52	5.97	5.10	4.30	3.81
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.70	4.05	4.48	4.93	5.72	6.31	6.55	6.52	5.97	5.10	4.30	3.81
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	227.30	240.46	306.04	345.75	397.52	373.26	361.14	348.93	317.94	293.87	245.52	230.35
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	52.51	53.91	67.84	74.99	90.18	92.91	96.62	95.02	83.63	73.15	58.98	53.89
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	117.51	106.14	117.51	113.72	117.51	113.72	117.51	117.51	113.72	117.51	113.72	117.51
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	397.32	400.51	491.40	534.46	605.20	579.89	575.27	561.46	515.29	484.53	418.22	401.76
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.20	0.20	0.25	0.27	0.30	0.29	0.29	0.28	0.26	0.24	0.21	0.20
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.20**	**0.20**	**0.25**	**0.27**	**0.30**	**0.29**	**0.29**	**0.28**	**0.26**	**0.24**	**0.21**	**0.20**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**2.98**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	517.39	521.90	526.98	531.90	539.78	545.08	547.16	546.89	542.13	533.69	524.92	518.89
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.70	4.05	4.48	4.93	5.72	6.31	6.55	6.52	5.97	5.10	4.30	3.81
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	227.30	240.46	306.04	345.75	397.519	373.26	361.141	348.93	317.942	293.87	245.52	230.35
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	52.51	53.91	67.84	74.99	90.177	92.91	96.620	95.02	83.625	73.15	58.98	53.89
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	86.44	78.07	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.49	0.55	0.62	0.70	0.772	0.76	0.731	0.71	0.674	0.61	0.54	0.50
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.49	0.55	0.62	0.70	0.772	0.76	0.731	0.71	0.674	0.61	0.54	0.50
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.77**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-75											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75
	FIN (Facility Identification Number)				68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75	68-95-75
	Product:				Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions
Tank Data	Diameter	D	ft		120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month		2,225,205	2,009,863	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		61.05	61.56	71.14	74.86	65.25	45.64	37.56	35.63	38.28	47.17	51.46	58.35
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		527.92	523.92	532.92	534.67	540.67	548.67	552.67	553.67	551.17	550.67	531.17	526.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		527.92	523.92	532.92	534.67	540.67	548.67	552.67	553.67	551.17	550.67	531.17	526.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	518.52	520.02	527.21	532.80	540.29	546.41	549.06	549.16	544.83	538.49	525.22	518.81
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		518.52	520.02	527.21	532.80	540.29	546.41	549.06	549.16	544.83	538.49	525.22	518.81
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	518.52	520.02	527.21	532.80	540.29	546.41	549.06	549.16	544.83	538.49	525.22	518.81
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	518.52	520.02	527.21	532.80	540.29	546.41	549.06	549.16	544.83	538.49	525.22	518.81
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$T_{BX} - T_{BN}$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	3.79	3.90	4.50	5.01	5.77	6.46	6.78	6.79	6.28	5.58	4.33	3.81
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	3.79	3.90	4.50	5.01	5.77	6.46	6.78	6.79	6.28	5.58	4.33	3.81
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	3.79	3.90	4.50	5.01	5.77	6.46	6.78	6.79	6.28	5.58	4.33	3.81
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	186.70	184.10	246.13	282.53	321.88	308.38	302.71	295.10	271.46	263.42	197.81	183.96
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	300.63	314.07	429.52	515.50	536.69	435.10	382.04	363.29	351.23	371.67	296.59	289.33
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	146.89	132.67	146.89	142.15	146.89	142.15	146.89	146.89	142.15	146.89	142.15	146.89
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	634.22	630.83	822.54	940.18	1,005.45	885.63	831.64	805.28	764.83	781.98	636.55	620.17
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.32	0.32	0.41	0.47	0.50	0.44	0.42	0.40	0.38	0.39	0.32	0.31
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.32**	**0.32**	**0.41**	**0.47**	**0.50**	**0.44**	**0.42**	**0.40**	**0.38**	**0.39**	**0.32**	**0.31**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**4.68**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	518.52	520.02	527.21	532.80	540.29	546.41	549.06	549.16	544.83	538.49	525.22	518.81
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		3.79	3.90	4.50	5.01	5.77	6.46	6.78	6.79	6.28	5.58	4.33	3.81
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	186.70	184.10	246.13	282.53	321.881	308.38	302.711	295.10	271.457	263.42	197.81	183.96
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	300.63	314.07	429.52	515.50	536.686	435.10	382.044	363.29	351.228	371.67	296.59	289.33
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	108.05	97.59	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.80	0.89	1.05	1.25	1.299	1.18	1.066	1.03	1.010	1.00	0.83	0.78
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.80	0.89	1.05	1.25	1.299	1.18	1.066	1.03	1.010	1.00	0.83	0.78
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**1.30**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-76											
				Month												
	EPN (Emission Point Number)				**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**
	FIN (Facility Identification Number)				**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**
	Product:				**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft		120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month		2,225,205	2,009,863	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		10.74	9.92	11.09	10.92	10.89	9.87	9.75	9.65	9.53	10.20	10.11	10.64
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		537.92	534.67	544.67	547.17	554.17	551.67	554.67	554.67	551.67	550.67	540.67	536.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		537.92	534.67	544.67	547.17	554.17	551.67	554.67	554.67	551.67	550.67	540.67	536.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	521.52	523.25	530.73	536.55	544.34	547.31	549.66	549.46	544.98	538.49	528.07	521.81
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		521.52	523.25	530.73	536.55	544.34	547.31	549.66	549.46	544.98	538.49	528.07	521.81
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	521.52	523.25	530.73	536.55	544.34	547.31	549.66	549.46	544.98	538.49	528.07	521.81
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	521.52	523.25	530.73	536.55	544.34	547.31	549.66	549.46	544.98	538.49	528.07	521.81
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	4.02	4.16	4.82	5.38	6.22	6.57	6.85	6.83	6.30	5.58	4.58	4.05
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	4.02	4.16	4.82	5.38	6.22	6.57	6.85	6.83	6.30	5.58	4.58	4.05
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	4.02	4.16	4.82	5.38	6.22	6.57	6.85	6.83	6.30	5.58	4.58	4.05
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.08	0.08	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	200.30	198.55	267.39	308.73	354.77	315.22	307.21	297.28	272.44	263.42	211.49	197.36
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	56.75	54.61	72.72	82.17	98.71	96.16	100.68	99.15	87.78	80.36	62.28	56.62
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	146.89	132.67	146.89	142.15	146.89	142.15	146.89	146.89	142.15	146.89	142.15	146.89
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	403.94	385.83	486.99	533.05	600.37	553.53	554.78	543.32	502.38	490.67	415.92	400.87
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.20	0.19	0.24	0.27	0.30	0.28	0.28	0.27	0.25	0.25	0.21	0.20
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.20**	**0.19**	**0.24**	**0.27**	**0.30**	**0.28**	**0.28**	**0.27**	**0.25**	**0.25**	**0.21**	**0.20**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**2.94**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	521.52	523.25	530.73	536.55	544.34	547.31	549.66	549.46	544.98	538.49	528.07	521.81
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		4.02	4.16	4.82	5.38	6.22	6.57	6.85	6.83	6.30	5.58	4.58	4.05
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.08	0.08	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$	200.30	198.55	267.39	308.73	354.774	315.22	307.214	297.28	272.444	263.42	211.49	197.36
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$	56.75	54.61	72.72	82.17	98.711	96.16	100.677	99.15	87.785	80.36	62.28	56.62
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$	108.05	97.59	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.49	0.52	0.60	0.69	0.755	0.72	0.693	0.68	0.646	0.61	0.53	0.49
	Maximum Hourly Emission Rate	L_T	lb/hr	$L_T+L * (100\%-CE)$	0.49	0.52	0.60	0.69	0.755	0.72	0.693	0.68	0.646	0.61	0.53	0.49
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.75**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-98											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	Parameter Name and Variable		Units	Notes												
	EPN (Emission Point Number)				68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98
	FIN (Facility Identification Number)				68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98
	Product:				Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions
Tank Data	Diameter	D	ft		130	130	130	130	130	130	130	130	130	130	130	130
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
	Monthly Throughput	Q	bbls/month		2,225,205	2,009,863	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205	2,225,205	2,153,425	2,225,205	2,153,425	2,225,205
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		61.24	61.68	71.26	74.93	65.41	45.94	37.96	36.06	38.65	47.47	51.71	58.56
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		515.67	516.67	519.67	532.67	541.67	545.67	546.67	546.67	544.67	529.67	530.67	527.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.97	517.72	523.92	530.97	538.98	544.24	546.31	546.09	541.13	532.47	522.09	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		515.67	517.72	523.92	532.67	541.67	545.67	546.67	546.67	544.67	532.47	530.67	527.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	525.07	519.11
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	525.07	519.11
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	525.07	519.11
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	525.07	519.11
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.32	3.83
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.32	3.83
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.32	3.83
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	185.54	190.92	250.29	301.78	351.21	326.85	313.80	303.67	280.56	250.74	213.54	200.70
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	276.64	301.25	403.82	508.72	541.85	428.48	369.50	349.21	338.33	328.70	296.97	292.43
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	135.59	122.47	135.59	131.21	135.59	131.21	135.59	135.59	131.21	135.59	131.21	135.59
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	597.77	614.63	789.69	941.71	1,028.65	886.54	818.89	788.46	750.11	715.03	641.72	628.71
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**	0.30	0.31	0.39	0.47	0.51	0.44	0.41	0.39	0.38	0.36	0.32	0.31
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**	**0.30**	**0.31**	**0.39**	**0.47**	**0.51**	**0.44**	**0.41**	**0.39**	**0.38**	**0.36**	**0.32**	**0.31**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**	**4.60**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	525.07	519.11
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}		3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.32	3.83
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	185.54	190.92	250.29	301.78	351.215	326.85	313.796	303.67	280.562	250.74	213.54	200.70
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	276.64	301.25	403.82	508.72	541.851	428.48	369.504	349.21	338.331	328.70	296.97	292.43
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	136.00	122.84	136.00	131.61	136.001	131.61	136.001	136.00	131.614	136.00	131.61	136.00
	Maximum Hourly Emission Rate	L_T	lb/hr	(L_R+L_F+L_D+L_{WD})/(hours in the month)	0.80	0.92	1.06	1.31	1.383	1.23	1.101	1.06	1.042	0.96	0.89	0.85
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.80	0.92	1.06	1.31	1.383	1.23	1.101	1.06	1.042	0.96	0.89	0.85
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**	**1.38**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-206											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	FIN (Facility Identification Number)				**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	Product:				**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft		134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month		373,699	337,534	373,699	361,644	373,699	361,644	373,699	373,699	361,644	373,699	361,644	373,699
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		58.26	59.01	68.30	72.09	62.44	43.02	34.91	33.00	35.71	44.45	48.81	55.57
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		520.67	520.42	528.92	532.17	537.17	541.47	545.67	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		520.67	520.42	528.92	532.17	539.04	544.30	546.37	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	516.34	518.97	526.01	532.05	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		516.34	518.97	526.01	532.05	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	516.34	518.97	526.01	532.05	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	516.34	518.97	526.01	532.05	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	Sl	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R		5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.25	3.44	3.96	4.46	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.25	3.44	3.96	4.46	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.25	3.44	3.96	4.46	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	180.59	182.80	243.28	281.82	322.16	301.76	291.63	297.40	263.76	247.07	195.59	186.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	248.51	267.69	365.02	443.41	460.30	359.36	306.39	303.67	285.06	294.22	249.06	250.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	22.09	19.95	22.09	21.38	22.09	21.38	22.09	22.09	21.38	22.09	21.38	22.09
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	451.20	470.44	630.39	746.60	804.55	682.50	620.11	623.15	570.20	563.38	466.02	458.91
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	**L_T/2000**	0.23	0.24	0.32	0.37	0.40	0.34	0.31	0.31	0.29	0.28	0.23	0.23
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	**L_T/2000 * (100%-CE)**	**0.23**	**0.24**	**0.32**	**0.37**	**0.40**	**0.34**	**0.31**	**0.31**	**0.29**	**0.28**	**0.23**	**0.23**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**	**3.54**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	516.34	518.97	526.01	532.05	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.25	3.44	3.96	4.46	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	180.59	182.80	243.28	281.82	322.156	301.76	291.635	297.40	263.763	247.07	195.59	186.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	248.51	267.69	365.02	443.41	460.300	359.36	306.388	303.67	285.061	294.22	249.06	250.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	72.57	65.54	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.67	0.77	0.92	1.10	1.149	1.02	0.901	0.91	0.860	0.83	0.72	0.68
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.67	0.77	0.92	1.10	1.149	1.02	0.901	0.91	0.860	0.83	0.72	0.68
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**	**1.15**											

Table A-3
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

	Parameter Name and Variable		Units	Notes	January	February	March	April	May	June	July	August	September	October	November	December
				Tank ID	68-95-210											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
	EPN (Emission Point Number)				**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	FIN (Facility Identification Number)				**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	Product:				**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft		134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month		373,699	337,534	373,699	361,644	373,699	361,644	373,699	373,699	361,644	373,699	361,644	373,699
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		62.22	62.63	72.33	76.01	66.43	46.76	38.70	36.77	39.39	48.32	52.59	59.52
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		528.92	525.67	536.92	538.67	545.67	552.17	553.17	555.17	552.67	547.17	537.17	531.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		528.92	525.67	536.92	538.67	545.67	552.17	553.17	555.17	552.67	547.17	537.17	531.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	518.82	520.55	528.41	534.00	541.79	547.46	549.21	549.61	545.28	537.44	527.02	520.46
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		518.82	520.55	528.41	534.00	541.79	547.46	549.21	549.61	545.28	537.44	527.02	520.46
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	518.82	520.55	528.41	534.00	541.79	547.46	549.21	549.61	545.28	537.44	527.02	520.46
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	518.82	520.55	528.41	534.00	541.79	547.46	549.21	549.61	545.28	537.44	527.02	520.46
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R		5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.42	3.55	4.15	4.63	5.37	5.96	6.16	6.20	5.73	4.95	4.04	3.54
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.42	3.55	4.15	4.63	5.37	5.96	6.16	6.20	5.73	4.95	4.04	3.54
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.42	3.55	4.15	4.63	5.37	5.96	6.16	6.20	5.73	4.95	4.04	3.54
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.08	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	191.35	189.64	257.25	294.92	337.59	319.17	306.19	300.62	277.20	260.41	209.73	194.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	281.23	294.74	408.72	489.30	513.16	413.17	356.57	342.01	330.47	337.10	287.79	279.53
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	22.09	19.95	22.09	21.38	22.09	21.38	22.09	22.09	21.38	22.09	21.38	22.09
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	494.66	504.33	688.07	805.60	872.84	753.72	684.85	664.72	629.05	619.59	518.89	496.19
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.25	0.25	0.34	0.40	0.44	0.38	0.34	0.33	0.31	0.31	0.26	0.25
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.25**	**0.25**	**0.34**	**0.40**	**0.44**	**0.38**	**0.34**	**0.33**	**0.31**	**0.31**	**0.26**	**0.25**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**3.87**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	518.82	520.55	528.41	534.00	541.79	547.46	549.21	549.61	545.28	537.44	527.02	520.46
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.42	3.55	4.15	4.63	5.37	5.96	6.16	6.20	5.73	4.95	4.04	3.54
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.08	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	191.35	189.64	257.25	294.92	337.585	319.17	306.189	300.62	277.196	260.41	209.73	194.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	281.23	294.74	408.72	489.30	513.164	413.17	356.571	342.01	330.474	337.10	287.79	279.53
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	72.57	65.54	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.73	0.82	0.99	1.19	1.241	1.11	0.988	0.96	0.942	0.90	0.79	0.73
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.73	0.82	0.99	1.19	1.241	1.11	0.988	0.96	0.942	0.90	0.79	0.73
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**1.24**											

Table A-4
H2S Emission Rate Calculation
Phillips 66 Company
September 2021

Basis:
Emissions based on "Using K Factors to Estimate Quantities of Individual Vapor Species Emitted During the Storage and Transfer of Hydrocarbon Liquids" by J. Meling, K. Horne, & J. Hoover.

	68-95-66	68-95-74	68-95-75	68-95-76	68-95-98
	Hourly	**Hourly**	**Hourly**	**Hourly**	**Hourly**
Max H_2S ppm (liquid)	1000	1000	1000	1000	1000
Temperature (F)	90	87	89	90	88
Product VP (psia)	6.85	6.55	6.79	6.85	6.56
Atmospheric Pressure (psia)	14.68	14.68	14.68	14.68	14.68
VOC Vapor Molecular Weight	66.00	66.00	66.00	66.00	66.00
VOC Liquid Molecular Weight	120.00	120.00	120.00	120.00	120.00
H2S Molecular Weight	34.08	34.08	34.08	34.08	34.08
Liquid Mole Fraction	0.00352	0.00352	0.00352	0.00352	0.00352
Hourly K	25.00	24.75	25.00	25.00	24.75
Hourly lb H2S/lb VOC	0.0974	0.1008	0.0982	0.0974	0.1007
	Annual	**Annual**	**Annual**	**Annual**	**Annual**
Max H_2S ppm (liquid)	1000	1000	1000	1000	1000
Temperature (F)	76	73	75	77	73
Product VP (psia)	5.27	5.04	5.16	5.37	4.99
Atmospheric Pressure (psia)	14.68	14.68	14.68	14.68	14.68
VOC Vapor Molecular Weight	66.00	66.00	66.00	66.00	66.00
VOC Liquid Molecular Weight	120.00	120.00	120.00	120.00	120.00
H2S Molecular Weight	34.08	34.08	34.08	34.08	34.08
Liquid Mole Fraction	0.00352	0.00352	0.00352	0.00352	0.00352
Annual K	22.50	21.75	22.50	22.50	21.75
Annual lb H2S/lb VOC	0.1140	0.1151	0.1164	0.1118	0.1163

Sample Calculation for Tank 68-95-66:

Liquid Mole Fraction calculation:

$$\text{Liquid Mole Fraction} = \frac{1{,}000 \text{ parts}}{1{,}000{,}000 \text{ parts}} \cdot \frac{120 \text{ lb}}{\text{lbmol}} \cdot \frac{\text{lbmol}}{34.08 \text{ lb}} = 0.0035$$

Hourly
*Vapor fractions obtained from nomograph for H_2S in crude, equal to Liquid Mole Fraction * K.*

K = 25.00 Liquid Mole Fraction * K = 0.0880 lb-mol H2S/lb-mol vapor

Table A-4
H2S Emission Rate Calculation
Phillips 66 Company
September 2021

H_2S Mass Ratio (maximum) emission factor calculation:

$$\text{Mass Ratio factor, max (lb } H_2S\text{/lb VOC)} = \frac{0.0880 \text{ mol frac}}{} \left| \frac{34.08 \text{ lb H2S}}{\text{lbmol}} \right| \frac{\text{lbmol}}{66 \text{ lb VOC}} \left| \frac{}{(6.85 \text{ VOC VP} / 14.68 \text{ atm VP})} \right. = 0.0974 \text{ lb H2S/lb VOC}$$

Annual
*Vapor fractions obtained from nomograph for H_2S in crude, equal to Liquid Mole Fraction * K.*

K = 22.50 Liquid Mole Fraction * K = 0.0792

H_2S Mass Ratio (maximum) emission factor calculation:

$$\text{Mass Ratio factor, max (lb } H_2S\text{/lb VOC)} = \frac{0.0792 \text{ mol frac}}{} \left| \frac{34.08 \text{ lb H2S}}{\text{lbmol}} \right| \frac{\text{lbmol}}{66 \text{ lb VOC}} \left| \frac{}{(5.27 \text{ VOC VP} / 14.68 \text{ atm VP})} \right. = 0.1140 \text{ lb H2S/lb VOC}$$

H_2S Mass Emission Rate calculation:

EPN	VOC Emissions			Calculated H_2S Emissions		
	lb/hr	individual tpy	subcap tpy	lb/hr	individual tpy	subcap tpy
68-95-66	1.43	4.86	17.02	0.14	0.55	1.98
68-95-74	0.77	2.98		0.08	0.34	
68-95-75	1.30	4.68		0.13	0.54	
68-95-76	0.75	2.94		0.07	0.33	
68-95-98	1.38	4.60		0.14	0.53	

NOTE: Listed concentration and other factors are estimates for calculation purposes only. The actual H_2S concentration will be determined through periodic sampling. Phillips 66 intends to determine compliance based on represented emission limits.

Determinations for tanks 68-95-66, 68-95-75, 68-95-76

Equilibrium K's by Nomograph . . .

Hourly
Annual

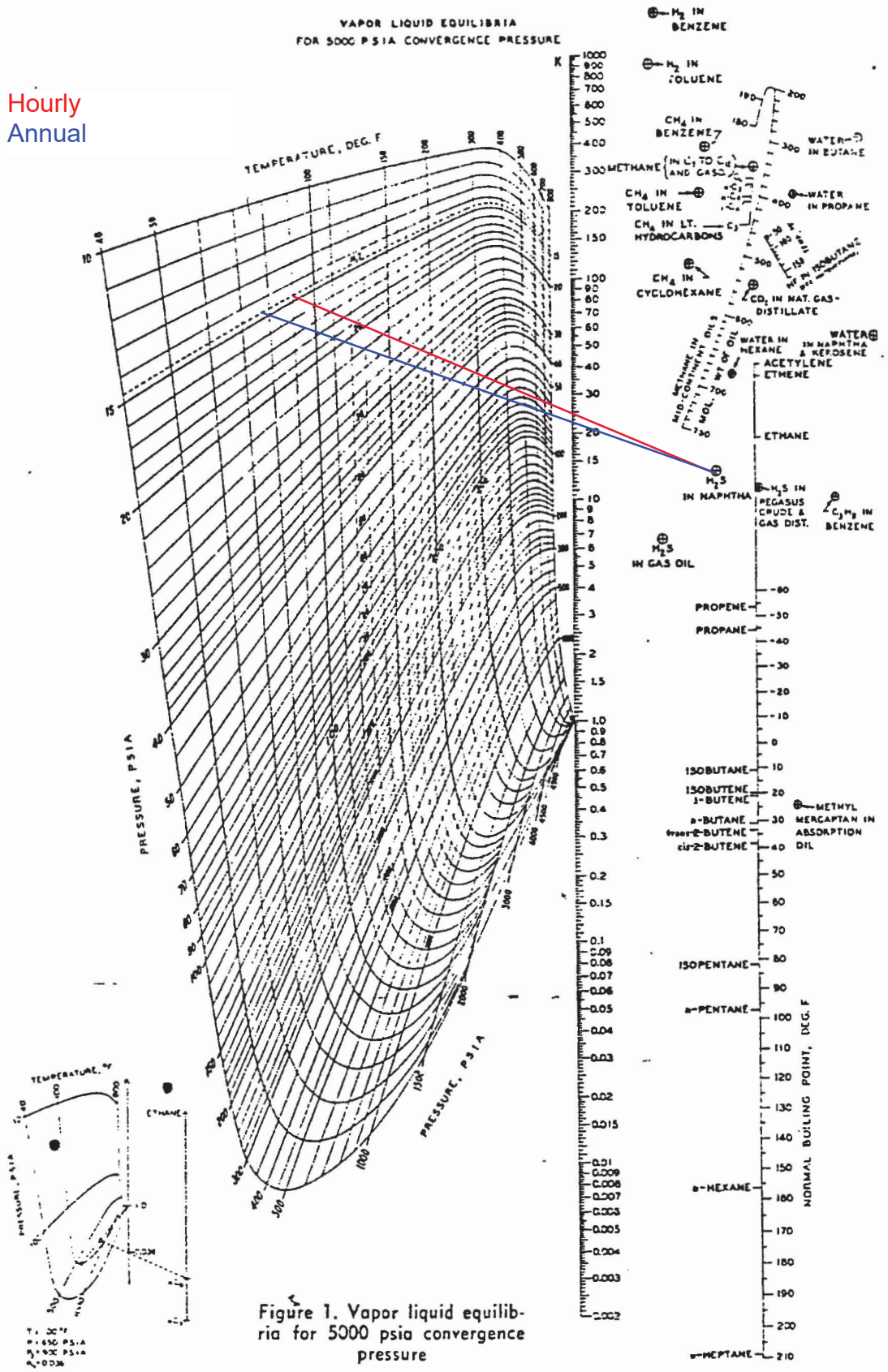


Figure 1. Vapor liquid equilibria for 5000 psia convergence pressure

Determinations for tanks 68-95-74 & 68-95-98

Equilibrium K's by Nomograph . . .

Hourly
Annual

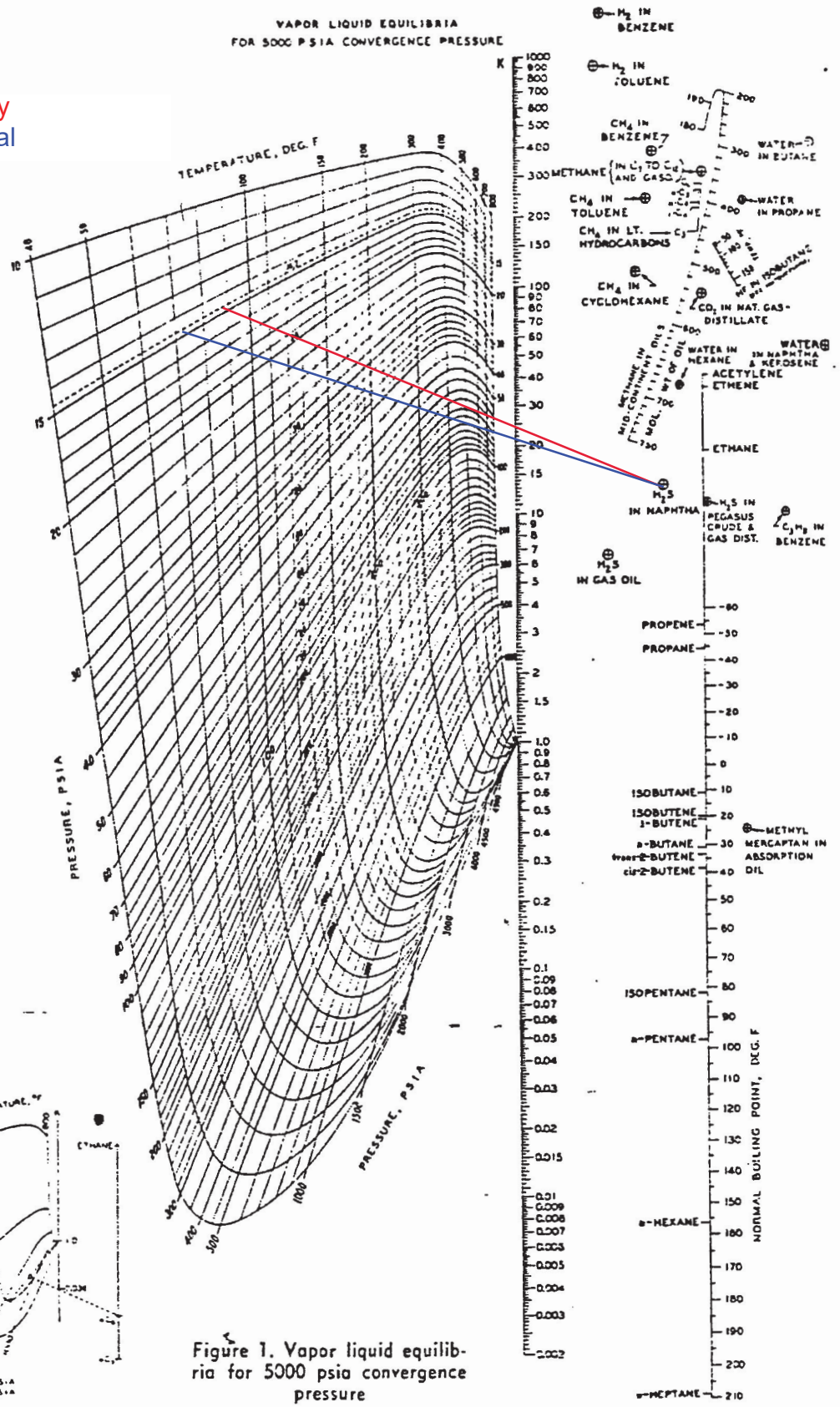


Figure 1. Vapor liquid equilibria for 5000 psia convergence pressure

Table A-5
PBR Registration No. 160791 Revised Calculations
EPN: 17-0-0
September 2021

Original

Component Type	Stream Type	Emission Factor (Refinery)	Control Efficiency (28MID)	Stream ID 017-03 Number of Components	Stream ID 017-02 Number of Components	Stream ID 017-06 Number of Components
Valves	Gas/Vapor	0.059	97%	9	0	3
	Light Liquid	0.024	97%	2	2	0
	Heavy Liquid	0.00051	0%	0	0	0
Flanges	Gas/Vapor	0.00055	97%	49	0	12
	Light Liquid	0.00055	97%	15	16	0
	Heavy Liquid	0.00055	97%	0	0	0
Relief Valves	Gas/Vapor	0.35	97%	0	0	1
Sample Con.	Light Liquid	0.033	97%	15	0	0
		Total VOC (lb/hr)		0.033	0.002	0.016
		Total VOC (tpy)		0.146	0.007	0.070

Stream ID	017-03	017-02	017-06
Total VOC (lb/hr)	0.033	0.002	0.016
Total VOC (TPY)	0.146	0.007	0.070

Distance to Off-Plant Receptor: >800
K Value: 46

Compound	Applicable PBR	L Value	Stream Composition	Stream Composition	Stream Composition	Proposed Emissions (lb/hr)	Proposed Emissions (TPY)	Emission Limitations (lb/hr)	Emission Limitations (TPY)	Meet PBR?
N-Butane	106.261(2)	-				0.00E+00	0.00E+00	6.00E+00	1.00E+01	YES
Isobutane	106.261(3)	-				0.00E+00	0.00E+00	-	-	see below
N-Pentane	106.262	350.000			0.001	1.60E-07	7.01E-07	7.61E+00	5.00E+00	YES
Isopentane	106.262	1770.000			0.0014	2.24E-07	9.82E-07	3.85E+01	5.00E+00	YES
Hexane	106.262	176.000			0.0007	1.12E-07	4.91E-07	3.83E+00	5.00E+00	YES
Heptane	106.262	350.000			0.0029	4.64E-07	2.03E-06	7.61E+00	5.00E+00	YES
2-Methlypentane	106.261(3)	-			0.0008	1.28E-07	5.61E-07	-	-	see below
3-Methylpentane	106.261(3)	-			0.0006	9.60E-08	4.21E-07	-	-	see below
2,3-Dimethylbutane	106.261(3)	-			0.0002	3.20E-08	1.40E-07	-	-	see below
Cyclohexane	106.262	1030.000			0.0011	1.76E-07	7.71E-07	2.24E+01	5.00E+00	YES
Cyclopentane	106.262	1720.000			0.0006	9.60E-08	4.21E-07	3.74E+01	5.00E+00	YES
C9+ Aromatics	106.261(3)	-		0.192		3.27E-06	1.43E-05	-	-	see below
Methylcyclohexane	106.262	1610.000			0.0009	1.44E-07	6.31E-07	3.50E+01	5.00E+00	YES
Methylcyclopentane	106.261(3)	-			0.0005	8.00E-08	3.51E-07	-	-	see below
Neopentane	106.261(3)	-				0.00E+00	0.00E+00	-	-	see below
Olefins	106.261(3)	-			0.0002	3.20E-08	1.40E-07	-	-	see below
Paraffins	106.261(3)	-	0.0507			1.69E-05	7.39E-05	-	-	see below
Benzene	106.262	3.000	76	0.0084	99.9888	4.13E-02	1.81E-01	6.52E-02	2.86E-01	YES
Ethylbenzene	106.262	434.000		0.0633		1.08E-06	4.72E-06	9.43E+00	5.00E+00	YES
Toluene	106.262	188.000	24	99.6814	0.0001	9.63E-03	4.22E-02	4.09E+00	5.00E+00	YES
Xylene (m-)	106.262	434.000		0.0318		5.42E-07	2.37E-06	9.43E+00	5.00E+00	YES
Xylene (p-)	106.262	434.000		0.0231		3.94E-07	1.72E-06	9.43E+00	5.00E+00	YES
				106.261(3)	Total:	2.05E-05	8.98E-05	1.00E+00	4.38E+00	YES

Revised

Component Type	Stream Type	Emission Factor (Refinery)	Control Efficiency (28MID)	Stream ID 017-03 Number of Components	Stream ID 017-02 Number of Components	Stream ID 017-06 Number of Components
Valves	Gas/Vapor	0.059	97%		0	3
	Light Liquid	0.024	97%		2	0
	Heavy Liquid	0.00051	0%		0	0
Flanges	Gas/Vapor	0.00055	97%		0	12
	Light Liquid	0.00055	97%		16	0
	Heavy Liquid	0.00055	97%		0	0
Relief Valves	Gas/Vapor	0.35	97%		0	1
Sample Con.	Light Liquid	0.033			0	0
		Total VOC (lb/hr)		0.000	0.002	0.016
		Total VOC (tpy)		0.000	0.007	0.070

* sample connection count is actually equal to two flanges

Stream ID	017-03	017-02	017-06
Total VOC (lb/hr)	0.000	0.002	0.016
Total VOC (TPY)	0.000	0.007	0.070

Distance to Off-Plant Receptor: >800
K Value: 46

Compound	Applicable PBR	L Value	Stream Composition	Stream Composition	Stream Composition	Proposed Emissions (lb/hr)	Proposed Emissions (TPY)	Emission Limitations (lb/hr)	Emission Limitations (TPY)	Meet PBR?
N-Butane	106.261(2)	-				0.00E+00	0.00E+00	6.00E+00	1.00E+01	YES
Isobutane	106.261(3)	-				0.00E+00	0.00E+00	-	-	see below
N-Pentane	106.262	350.000			0.001	1.60E-07	7.01E-07	7.61E+00	5.00E+00	YES
Isopentane	106.262	1770.000			0.0014	2.24E-07	9.82E-07	3.85E+01	5.00E+00	YES
Hexane	106.262	176.000			0.0007	1.12E-07	4.91E-07	3.83E+00	5.00E+00	YES
Heptane	106.262	350.000			0.0029	4.64E-07	2.03E-06	7.61E+00	5.00E+00	YES
2-Methlypentane	106.261(3)	-			0.0008	1.28E-07	5.61E-07	-	-	see below
3-Methylpentane	106.261(3)	-			0.0006	9.60E-08	4.21E-07	-	-	see below
2,3-Dimethylbutane	106.261(3)	-			0.0002	3.20E-08	1.40E-07	-	-	see below
Cyclohexane	106.262	1030.000			0.0011	1.76E-07	7.71E-07	2.24E+01	5.00E+00	YES
Cyclopentane	106.262	1720.000			0.0006	9.60E-08	4.21E-07	3.74E+01	5.00E+00	YES
C9+ Aromatics	106.261(3)	-		0.192		3.27E-06	1.43E-05	-	-	see below
Methylcyclohexane	106.262	1610.000			0.0009	1.44E-07	6.31E-07	3.50E+01	5.00E+00	YES
Methylcyclopentane	106.261(3)	-			0.0005	8.00E-08	3.51E-07	-	-	see below
Neopentane	106.261(3)	-				0.00E+00	0.00E+00	-	-	see below
Olefins	106.261(3)	-			0.0002	3.20E-08	1.40E-07	-	-	see below
Paraffins	106.261(3)	-	0.0507			0.00E+00	0.00E+00	-	-	see below
Benzene	106.262	3.000	76	0.0084	99.9888	1.60E-02	7.01E-02	6.52E-02	2.86E-01	YES
Ethylbenzene	106.262	434.000		0.0633		1.08E-06	4.72E-06	9.43E+00	5.00E+00	YES
Toluene	106.262	188.000	24	99.6814	0.0001	1.70E-03	7.44E-03	4.09E+00	5.00E+00	YES
Xylene (m-)	106.262	434.000		0.0318		5.42E-07	2.37E-06	9.43E+00	5.00E+00	YES
Xylene (p-)	106.262	434.000		0.0231		3.94E-07	1.72E-06	9.43E+00	5.00E+00	YES
				106.261(3)	Total:	3.64E-06	1.59E-05	1.00E+00	4.38E+00	YES

Table A-5
PBR Registration No. 160791 Revised Calculations
EPN: 87-0-0
September 2021

Original

Component Type	Stream Type	Emission Factor (Refinery)	Control Efficiency (28MID)	Number of Components (Stream ID 087-09)
Valves	Gas/Vapor	0.059	97%	0
	Light Liquid	0.024	97%	25
	Heavy Liquid	0.00051	97%	0
Flanges	Gas/Vapor	0.00055	97%	0
	Light Liquid	0.00055	97%	73
	Heavy Liquid	0.00055	97%	0
Relief Valves	Gas/Vapor	0.35	97%	0
Sample Con.	Light Liquid	0.033	97%	0
		Total VOC (lb/hr)		0.019
		Total VOC (tpy)		0.084

Stream ID	087-09
Total VOC (lb/hr)	0.019
Total VOC (TPY)	0.084

Distance to Off-Plant Receptor: >100
K Value: 326

Compound	Applicable PBR	L Value	Stream Composition	Proposed Emissions (lb/hr)	Proposed Emissions (TPY)	Emission Limitations (lb/hr)	Emission Limitations (TPY)	Meet PBR?
N-Butane	106.261(2)	-	0.1684	7.76E-05	3.40E-04	6.00E+00	1.00E+01	YES
Isobutane	106.261(3)	-	0.0812	3.74E-05	1.64E-04	-	-	see below
N-Pentane	106.262	350	0.0506	2.33E-05	1.02E-04	1.07E+00	4.70E+00	YES
Isopentane	106.262	1770	99.4035	4.58E-02	2.01E-01	5.43E+00	5.00E+00	YES
Hexane	106.262	176		0.00E+00	0.00E+00	5.40E-01	2.36E+00	YES
Heptane	106.262	350		0.00E+00	0.00E+00	1.07E+00	4.70E+00	YES
2-Methlypentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
3-Methylpentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
2,3-Dimethylbutane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Cyclohexane	106.262	1030		0.00E+00	0.00E+00	3.16E+00	5.00E+00	YES
Cyclopentane	106.262	1720		0.00E+00	0.00E+00	5.28E+00	5.00E+00	YES
C9+ Aromatics	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Methylcyclohexane	106.262	1610		0.00E+00	0.00E+00	4.94E+00	5.00E+00	YES
Methylcyclopentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Neopentane	106.261(3)	-	0.2963	1.37E-04	5.98E-04	-	-	see below
Olefins	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Paraffins	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Benzene	106.262	3		0.00E+00	0.00E+00	9.20E-03	4.03E-02	YES
Ethylbenzene	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
Toluene	106.262	188		0.00E+00	0.00E+00	5.77E-01	2.53E+00	YES
Xylene (m-)	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
Xylene (p-)	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
		106.261(3)	Total:	1.74E-04	7.62E-04	1.00E+00	4.38E+00	YES

Revised

Component Type	Stream Type	Emission Factor (Refinery)	Control Efficiency (28MID)	Number of Components (Stream ID 087-09)
Valves	Gas/Vapor	0.059	97%	0
	Light Liquid	0.024	97%	25
	Heavy Liquid	0.00051	0%	0
Flanges	Gas/Vapor	0.00055	30%	0
	Light Liquid	0.00055	30%	73
	Heavy Liquid	0.00055	30%	0
Relief Valves	Gas/Vapor	0.35	97%	0
Sample Con.	Light Liquid	0.033		0
		Total VOC (lb/hr)		0.046
		Total VOC (tpy)		0.202

Stream ID	087-09
Total VOC (lb/hr)	0.046
Total VOC (TPY)	0.202

Distance to Off-Plant Receptor: >100
K Value: 326

Compound	Applicable PBR	L Value	Stream Composition	Proposed Emissions (lb/hr)	Proposed Emissions (TPY)	Emission Limitations (lb/hr)	Emission Limitations (TPY)	Meet PBR?
N-Butane	106.261(2)	-	0.1684	7.76E-05	3.40E-04	6.00E+00	1.00E+01	YES
Isobutane	106.261(3)	-	0.0812	3.74E-05	1.64E-04	-	-	see below
N-Pentane	106.262	350	0.0506	2.33E-05	1.02E-04	1.07E+00	4.70E+00	YES
Isopentane	106.262	1770	99.4035	4.58E-02	2.01E-01	5.43E+00	5.00E+00	YES
Hexane	106.262	176		0.00E+00	0.00E+00	5.40E-01	2.36E+00	YES
Heptane	106.262	350		0.00E+00	0.00E+00	1.07E+00	4.70E+00	YES
2-Methlypentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
3-Methylpentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
2,3-Dimethylbutane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Cyclohexane	106.262	1030		0.00E+00	0.00E+00	3.16E+00	5.00E+00	YES
Cyclopentane	106.262	1720		0.00E+00	0.00E+00	5.28E+00	5.00E+00	YES
C9+ Aromatics	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Methylcyclohexane	106.262	1610		0.00E+00	0.00E+00	4.94E+00	5.00E+00	YES
Methylcyclopentane	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Neopentane	106.261(3)	-	0.2963	1.37E-04	5.98E-04	-	-	see below
Olefins	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Paraffins	106.261(3)	-		0.00E+00	0.00E+00	-	-	see below
Benzene	106.262	3		0.00E+00	0.00E+00	9.20E-03	4.03E-02	YES
Ethylbenzene	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
Toluene	106.262	188		0.00E+00	0.00E+00	5.77E-01	2.53E+00	YES
Xylene (m-)	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
Xylene (p-)	106.262	434		0.00E+00	0.00E+00	1.33E+00	5.00E+00	YES
		106.261(3)	Total:	1.74E-04	7.62E-04	1.00E+00	4.38E+00	YES

Appendix B
Federal Permitting Tables

TABLE 1F

Permit No.: **49140, 5920A, 30513**	Application Submittal Date: **September 2021**
Company: **Phillips 66 (CN604065912)**	
RN: **101619179**	Facility Location: **8189 Old FM 524**
City: **Old Ocean**	County: **Brazoria**
Permit Unit I.D.: **TBD**	Permit Name: **Sweeny Refinery**
Permit Activity: New Source _____ Modification __X____	

Complete for all Pollutants with a Project Emission Increase.	POLLUTANTS								
	Ozone		CO	PM	PM_{10}	$PM_{2.5}$	NO_x	SO_2	Other[1]
	VOC	NO_x							H2S/TRS
Nonattainment?	Yes	Yes	No	No	No	No	No	No	No
PSD?	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Existing site PTE (tpy)?	**>100**	**>100**	**>100**	**>100**	**>100**	**>100**	**>100**	**>100**	**>10**
Proposed project emission increases (tpy from 2F)[2]	**4.51**	**4.66**	**5.09**	**0.36**	**0.36**	**0.36**	**4.66**	**1.88**	**1.98**
Is the existing site a major source?	**yes**	**yes**	**yes**	**yes**	**yes**	**yes**	**yes**	**yes**	**yes**
[2]If not, is the project a major source by itself?	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**
If netting required, estimated start of construction?									
5 years prior to start of construction									contemporaneous
Estimated start of operation									period
Net contemporaneous change, including proposed project, from Table 3F. (tpy)	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**
Major NSR Applicable?	**no**	**no**	**no**	**no**	**no**	**no**	**no**	**no**	**no**

1 Other PSD pollutants. [Pb, H_2S, TRS, H_2SO_4, Fluoride excluding HF, ect.]

2 Sum of proposed emissions minus baseline emissions, increases only.

The representations made above and on the accompanying tables are true and correct to the best of my knowledge.

Signature	Title	Date
[signature]	ENVIRONMENTAL DIRECTOR	9/17/2021

TCEQ - 10154 (Revised 04/12) Table 1F
These forms are for use by facilities subject to air quality permit requirements and may be revised periodically. (APDG 5912v2)

Table 2F - VOC
Project Emission Increase

Pollutant: VOC	**Permit No.:** 49140, 5920A, 30513
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.48	0.48	0.74	-	0.26	-	0.26
2	15-0-0	15-0-0	5920A	**	**	0.13	-	0.13	-	0.13
3	11-0-0	11-0-0	30513	**	**	0.03	-	0.03	-	0.03
4	14-0-0	14-0-0	30513	**	**	0.08	-	0.08	-	0.08
5	35-0-0	35-0-0	30513	**	**	0.07	-	0.07	-	0.07
6	68-95-6	68-95-6	49140	1.23	1.16	3.59	-	0.46	-	0.46
7	68-95-27	68-95-27	49140	0.73	0.43					
8	68-95-402	68-95-402	49140	1.54	1.54					
9	68-95-31	68-95-31	30513	0.91	0.80	1.04	-	0.24	-	0.24
10	68-95-205	68-95-205	30513	0.65	0.65	-	0.78	0.12	-	0.12
11	68-95-409	68-95-409	30513	0.86	0.28	5.17	-	1.92	-	1.92
12	68-95-410	68-95-410	30513	2.01	2.01					
13	68-95-412	68-95-412	30513	0.70	0.70					
14	68-95-413	68-95-413	30513	1.08	0.27					
15	68-95-411	68-95-411	30513	0.71	0.59	0.73	-	0.14	-	0.14
16	68-95-216	68-95-216	30513	0.41	0.41	-	0.43	0.02	-	0.02
17	68-95-207	68-95-207	30513	4.81	4.81	4.50	-	-0.30	-	-0.30
18	68-95-85	68-95-85	30513	0.34	0.34	0.57	-	0.22	-	0.22
19	68-95-86	68-95-86	30513	0.34	0.34	0.47	-	0.13	-	0.13
20	68-95-87	68-95-87	30513	0.21	0.21	0.45	-	0.24	-	0.24
21	68-95-66	68-95-66	30513	4.35	3.81	17.02	-	0.65	-	0.65
22	68-95-74	68-95-74	30513	2.38	2.38					
23	68-95-75	68-95-75	30513	3.83	3.63					
24	68-95-76	68-95-76	30513	2.74	2.74					
25	68-95-98	68-95-98	5920A	3.81	3.81					
26	68-95-206	68-95-206	30513	3.48	3.48	-	3.54	0.06	-	0.06
27	68-95-210	68-95-210	30513	3.83	3.83	-	3.87	0.04	-	0.04
28	-	-	-	-	-	-	-	-	-	-

Notes:
*** Increase from project fugitive component counts shown as zero to PTE for project component additions only.*
Storage tank baseline emissions recalculated using current AP-42 for apples-to-apples comparison.

Page Subtotal: ***4.51***

Table 2F - NOx
Project Emission Increase

Pollutant: NOx	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	8.73	8.73	13.38	-	4.66	-	4.66
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***4.66***

Table 2F - CO
Project Emission Increase

Pollutant: CO	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.01	0.01	5.10	-	5.09	-	5.09
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***5.09***

Table 2F - SO2
Project Emission Increase

Pollutant: SO2	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.05	0.05	1.93	-	1.88	-	1.88
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***1.88***

Table 2F - PM
Project Emission Increase

Pollutant: PM	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.67	0.67	1.03	-	0.36	-	0.36
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***0.36***

Table 2F - PM10
Project Emission Increase

Pollutant: PM10	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.67	0.67	1.03	-	0.36	-	0.36
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***0.36***

Table 2F - PM2.5
Project Emission Increase

Pollutant: PM2.5	**Permit No.:** 49140
Baseline Period: 2019-2020	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	20-36-1	20-36-1	49140	0.67	0.67	1.03	-	0.36	-	0.36
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
Notes:									***Page Subtotal:***	***0.36***

Table 2F - H2S/TRS
Project Emission Increase

Pollutant: H2S/TRS	**Permit No.:** 30513
Baseline Period: n/a	

	Affected or Modified Facilities		Permit No.	Actual Emissions (tons/yr)	A Baseline Emissions (tons/yr)	B Proposed Emissions (tons/yr)	C Projected Actual Emissions (tons/yr)	Difference ((C or B)-A) (tons/yr)	Correction (tons/yr)	Project Increase (tons/yr)
	FIN	EPN								
1	11-0-0	11-0-0	30513	**	**	<0.01	-	<0.01	-	<0.01
2	14-0-0	14-0-0	30513	**	**	<0.01	-	<0.01	-	<0.01
3	68-95-66	68-95-66	30513	-	-	1.98	-	1.98	-	1.98
4	68-95-74	68-95-74	30513	-	-					
5	68-95-75	68-95-75	30513	-	-					
6	68-95-76	68-95-76	30513	-	-					
7	68-95-98	68-95-98	5920A	-	-					
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
Notes: *** Increase from project fugitive component counts shown as zero to PTE for project component additions only.*									***Page Subtotal:***	***1.98***

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-6											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		Units	Notes													
	EPN (Emission Point Number)					68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6
	FIN (Facility Identification Number)					68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6	68-95-6
	Product:					Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane	Hexane
Tank Data	Diameter	D	ft			56	56	56	56	56	56	56	56	56	56	56	56
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			55,881	55,187	64,375	66,148	45,497	58,159	55,684	56,120	58,566	68,009	69,137	65,192
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			22.18	20.04	22.18	21.47	22.18	21.47	22.18	22.18	21.47	22.18	21.47	22.18
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			523.67	521.67	534.17	536.67	541.67	546.67	536.67	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			523.67	521.67	534.17	536.67	541.67	546.67	544.75	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		520.47	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			520.47	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		524.65	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		516.29	516.09	526.19	530.22	536.38	541.55	540.89	543.30	541.63	532.01	522.11	518.30
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		2.47	2.48	3.19	3.52	4.06	4.57	4.51	4.77	4.58	3.67	2.88	2.60
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		2.74	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		2.23	2.21	2.85	3.14	3.63	4.10	4.04	4.27	4.11	3.28	2.58	2.34
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		41.65	37.67	55.32	59.93	73.06	81.26	82.78	88.50	81.55	64.92	47.62	44.03
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		88.30	79.87	117.29	127.06	154.89	172.28	175.51	187.63	172.91	137.64	100.97	93.35
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		7.87	7.77	9.07	9.32	6.41	8.19	7.84	7.91	8.25	9.58	9.74	9.18
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		137.82	125.32	181.69	196.31	234.35	261.73	266.14	284.04	262.71	212.14	158.33	146.57
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.07	0.06	0.09	0.10	0.12	0.13	0.13	0.14	0.13	0.11	0.08	0.07
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.07**	**0.06**	**0.09**	**0.10**	**0.12**	**0.13**	**0.13**	**0.14**	**0.13**	**0.11**	**0.08**	**0.07**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**1.23**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		524.65	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			2.74	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.07	0.08	0.09	0.11	0.10	0.11	0.11	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		46.68	42.53	62.86	68.34	83.212	92.47	94.573	101.27	92.964	73.93	53.79	49.38
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		98.98	90.16	133.27	144.89	176.421	196.06	200.507	214.71	197.095	156.74	114.03	104.69
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		80.71	72.90	80.71	78.10	80.708	78.10	80.708	80.71	78.104	80.71	78.10	80.71
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.30	0.31	0.37	0.40	0.457	0.51	0.505	0.53	0.511	0.42	0.34	0.32
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.30	0.31	0.37	0.40	0.457	0.51	0.505	0.53	0.511	0.42	0.34	0.32
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.53**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-27											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
				Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	FIN (Facility Identification Number)				**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	Product:				**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft		40	40	40	40	40	40	40	40	40	40	40	40
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month		0	0	23,841	64,627	63,789	61,952	57,673	43,683	66,022	65,134	57,892	61,075
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		16.52	14.92	16.52	15.99	16.52	15.99	16.52	16.52	15.99	16.52	15.99	16.52
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		526.67	520.67	534.67	536.67	541.67	545.67	548.67	548.67	546.67	539.17	527.87	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		526.67	520.67	534.67	536.67	541.67	545.67	548.67	548.67	546.67	539.17	527.87	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	521.88	519.64	530.68	534.65	540.83	545.32	547.97	547.87	544.71	536.73	525.75	521.72
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		521.88	519.64	530.68	534.65	540.83	545.32	547.97	547.87	544.71	536.73	525.75	521.72
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	526.38	524.40	535.69	539.76	545.83	550.23	553.03	553.00	549.74	541.83	530.57	526.26
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	517.38	514.89	525.68	529.55	535.83	540.41	542.90	542.74	539.67	531.63	520.93	517.18
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole		86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R		6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.56	2.42	3.17	3.49	4.03	4.47	4.74	4.73	4.41	3.66	2.82	2.55
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.86	2.73	3.58	3.93	4.52	4.99	5.31	5.31	4.94	4.13	3.17	2.85
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.29	2.15	2.81	3.09	3.59	3.99	4.23	4.21	3.93	3.25	2.50	2.28
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	8.43	7.16	10.71	11.55	14.10	15.42	17.13	17.09	15.17	12.62	9.07	8.40
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	68.33	58.05	86.82	93.57	114.31	125.01	138.85	138.49	122.93	102.29	73.48	68.04
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	-	-	4.74	12.84	12.68	12.31	11.46	8.68	13.12	12.95	11.51	12.14
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	76.76	65.21	102.28	117.96	141.09	152.74	167.45	164.26	151.22	127.85	94.06	88.57
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.04	0.03	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.04**	**0.03**	**0.05**	**0.06**	**0.07**	**0.08**	**0.08**	**0.08**	**0.08**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.72**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	526.38	524.40	535.69	539.76	545.83	550.23	553.03	553.00	549.74	541.83	530.57	526.26
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.86	2.73	3.58	3.93	4.52	4.99	5.31	5.31	4.94	4.13	3.17	2.85
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	9.53	8.16	12.27	13.26	16.160	17.64	19.698	19.68	17.409	14.49	10.34	9.50
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	77.25	66.10	99.44	107.45	130.966	143.00	159.637	159.49	141.084	117.47	83.76	77.00
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	113.86	102.84	113.86	110.19	113.861	110.19	113.861	113.86	110.188	113.86	110.19	113.86
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.27	0.26	0.30	0.32	0.351	0.38	0.394	0.39	0.373	0.33	0.28	0.27
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.27	0.26	0.30	0.32	0.351	0.38	0.394	0.39	0.373	0.33	0.28	0.27
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.39**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-402											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402
	FIN (Facility Identification Number)					68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402	68-95-402
	Product:					**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft			74	74	74	74	74	74	74	74	74	74	74	74
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			60,622	58,969	71,252	83,210	69,222	67,898	51,242	74,656	68,109	68,074	76,702	79,243
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			27.81	25.12	27.81	26.91	27.81	26.91	27.81	27.81	26.91	27.81	26.91	27.81
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			522.67	523.67	527.67	532.67	541.67	546.67	547.67	548.17	547.77	540.67	524.67	526.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			522.67	523.67	527.67	532.67	541.67	546.67	547.67	548.17	547.77	540.67	524.67	526.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		519.87	521.87	526.71	532.49	541.20	546.31	547.68	547.90	545.87	538.16	524.01	522.57
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			519.87	521.87	526.71	532.49	541.20	546.31	547.68	547.90	545.87	538.16	524.01	522.57
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		524.02	526.27	531.39	537.31	545.95	551.00	552.52	552.77	550.61	542.91	528.46	526.73
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		515.73	517.47	522.03	527.68	536.44	541.62	542.85	543.04	541.13	533.41	519.57	518.40
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.44	2.56	2.88	3.32	4.07	4.57	4.71	4.74	4.53	3.79	2.70	2.60
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.70	2.85	3.23	3.71	4.53	5.08	5.25	5.28	5.03	4.23	3.01	2.89
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.19	2.29	2.57	2.95	3.64	4.11	4.22	4.24	4.06	3.39	2.42	2.35
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.05	0.06	0.08	0.09	0.10	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		54.14	51.64	65.24	73.86	96.64	107.49	115.32	116.02	106.21	88.99	58.67	58.28
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		108.87	103.86	131.20	148.55	194.35	216.17	231.92	233.33	213.59	178.97	117.98	117.19
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		6.43	6.26	7.56	8.83	7.35	7.20	5.44	7.92	7.23	7.22	8.14	8.41
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		169.44	161.76	204.00	231.24	298.34	330.87	352.68	357.28	327.02	275.19	184.78	183.88
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.08	0.08	0.10	0.12	0.15	0.17	0.18	0.18	0.16	0.14	0.09	0.09
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.08**	**0.08**	**0.10**	**0.12**	**0.15**	**0.17**	**0.18**	**0.18**	**0.16**	**0.14**	**0.09**	**0.09**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**1.54**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		524.02	526.27	531.39	537.31	545.95	551.00	552.52	552.77	550.61	542.91	528.46	526.73
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.70	2.85	3.23	3.71	4.53	5.08	5.25	5.28	5.03	4.23	3.01	2.89
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.09	0.11	0.11	0.11	0.10	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		60.62	58.22	74.07	84.16	110.000	122.25	131.724	132.66	120.949	101.25	66.20	65.28
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		121.92	117.09	148.96	169.25	221.217	245.86	264.905	266.78	243.235	203.63	133.13	131.29
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		60.79	54.91	60.79	58.83	60.790	58.83	60.790	60.79	58.829	60.79	58.83	60.79
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.33	0.34	0.38	0.43	0.527	0.59	0.615	0.62	0.588	0.49	0.36	0.35
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.33	0.34	0.38	0.43	0.527	0.59	0.615	0.62	0.588	0.49	0.36	0.35
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.62**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-31											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	FIN (Facility Identification Number)					68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	Product:					Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed
Tank Data	Diameter	D	ft			42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		400	400	400	400	400	400	400	400	400	400	400	400
	Monthly Throughput	Q	bbls/month			127,543	122,534	166,073	157,829	151,060	153,151	154,179	138,770	162,039	167,372	163,303	164,298
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			6.22	5.62	6.22	6.02	6.22	6.02	6.22	6.22	6.02	6.22	6.02	6.22
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	ºF			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	ºF			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	ºR	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	ºR	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	ºR	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	ºR	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	ºR			543.67	544.67	551.67	562.67	562.67	563.67	564.67	565.67	568.67	563.67	556.67	556.67
	IFR or DEFR Liquid Bulk Temperature	T_B	ºR	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	ºR	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	ºR	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	ºR			543.67	544.67	551.67	562.67	562.67	563.67	564.67	565.67	568.67	563.67	556.67	556.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	ºR	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_S I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		532.90	534.94	541.71	551.30	554.28	556.86	558.25	558.78	558.82	552.43	544.13	541.56
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	ºR	$0.7T_{AA} + 0.3T_B + 0.008\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	ºR	$0.3T_{AA} + 0.7T_B + 0.009\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	ºR			532.90	534.94	541.71	551.30	554.28	556.86	558.25	558.78	558.82	552.43	544.13	541.56
	Daily Max. Liquid Surface Temperature	T_{LX}	ºR	$T_{LA}+0.25*\Delta T_V$		537.25	539.54	546.57	556.28	559.17	561.67	563.22	563.80	563.73	557.38	548.78	545.94
	Daily Min. Liquid Surface Temperature	T_{LN}	ºR	$T_{LA}-0.25*\Delta T_V$		528.56	530.34	536.84	546.33	549.38	552.04	553.29	553.77	553.91	547.48	539.48	537.18
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	ºR	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	ºR	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	ºR	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	ºR			17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	ºF/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	ºR			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.35	3.51	4.11	5.11	5.46	5.78	5.96	6.02	6.03	5.24	4.35	4.10
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.71	3.91	4.60	5.71	6.08	6.41	6.63	6.71	6.70	5.84	4.83	4.53
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.02	3.15	3.67	4.57	4.90	5.20	5.34	5.40	5.42	4.69	3.91	3.70
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.11	0.12	0.12	0.13	0.13	0.13	0.11	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		44.36	42.35	56.32	70.86	79.50	82.68	88.85	90.19	87.37	75.53	58.22	56.11
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		34.76	33.19	44.14	55.53	62.30	64.79	69.62	70.68	68.47	59.19	45.62	43.97
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		24.21	23.26	31.52	29.96	28.67	29.07	29.26	26.34	30.76	31.77	31.00	31.19
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		103.34	98.79	131.98	156.35	170.47	176.53	187.73	187.21	186.59	166.48	134.84	131.26
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.05	0.05	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.07
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.05**	**0.05**	**0.07**	**0.08**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.08**	**0.07**	**0.07**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.92**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	ºR	TLA+0.25*ΔTV		537.25	539.54	546.57	556.28	559.17	561.67	563.22	563.80	563.73	557.38	548.78	545.94
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.71	3.91	4.60	5.71	6.08	6.41	6.63	6.71	6.70	5.84	4.83	4.53
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.08	0.09	0.12	0.13	0.14	0.15	0.15	0.15	0.13	0.10	0.09
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		49.91	47.97	64.30	81.35	91.177	94.74	102.336	104.07	100.503	86.69	66.12	63.21
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		39.11	37.59	50.39	63.75	71.450	74.24	80.194	81.55	78.758	67.93	51.81	49.53
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		56.49	51.02	56.49	54.67	56.487	54.67	56.487	56.49	54.665	56.49	54.67	56.49
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.20	0.20	0.23	0.28	0.295	0.31	0.321	0.33	0.325	0.28	0.24	0.23
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.20	0.20	0.23	0.28	0.295	0.31	0.321	0.33	0.325	0.28	0.24	0.23
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.33**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-205											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	FIN (Facility Identification Number)					**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	Product:					**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**
Tank Data	Diameter	D	ft			133	133	133	133	133	133	133	133	133	133	133	133
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month			113,878	242,099	242,099	611,191	517,599	583,193	607,323	603,496	608,835	577,643	567,998	562,480
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			11.68	10.83	12.11	11.96	11.86	10.64	10.44	10.31	10.22	11.00	10.94	11.55
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			523.67	521.67	527.67	537.67	543.67	548.67	548.67	549.67	548.17	542.67	525.67	527.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.96	531.02	539.03	544.30	546.37	546.15	541.18	532.50	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			523.67	521.67	527.67	537.67	543.67	548.67	548.67	549.67	548.17	542.67	525.67	527.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		517.24	519.35	525.63	533.70	541.19	546.41	547.86	547.96	543.93	536.09	523.57	519.26
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			517.24	519.35	525.63	533.70	541.19	546.41	547.86	547.96	543.93	536.09	523.57	519.26
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		521.16	523.53	530.10	538.33	545.79	550.97	552.55	552.66	548.49	540.63	527.78	523.20
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		513.32	515.17	521.16	529.06	536.58	541.85	543.17	543.25	539.37	531.55	519.37	515.33
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Slope	Sl	°F/vol %			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88
	C-C Vapor Pressure Equation Constant B	B	°R			7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	EXP(A-B/T_{LA})		0.70	0.74	0.88	1.09	1.31	1.50	1.55	1.55	1.41	1.15	0.83	0.74
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	EXP(A-B/T_{LX})		0.78	0.83	0.99	1.22	1.47	1.67	1.74	1.74	1.58	1.30	0.93	0.82
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	EXP(A-B/T_{LN})		0.63	0.66	0.78	0.96	1.17	1.34	1.38	1.38	1.25	1.03	0.74	0.66
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.01	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		41.13	41.53	55.86	70.01	81.50	77.25	73.80	71.95	66.23	60.81	44.44	42.60
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		11.43	11.24	14.97	18.41	22.29	22.93	23.36	23.13	20.64	18.05	12.78	11.97
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		6.78	14.42	14.42	36.40	30.83	34.73	36.17	35.94	36.26	34.40	33.83	33.50
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		59.34	67.20	85.26	124.82	134.62	134.91	133.33	131.03	123.13	113.27	91.05	88.07
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.03	0.03	0.04	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.03**	**0.03**	**0.04**	**0.06**	**0.07**	**0.07**	**0.07**	**0.07**	**0.06**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.64**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		521.16	523.53	530.10	538.33	545.79	550.97	552.55	552.66	548.49	540.63	527.78	523.20
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			0.78	0.83	0.99	1.22	1.47	1.67	1.74	1.74	1.58	1.30	0.93	0.82
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		45.91	46.66	63.12	79.23	91.958	86.93	83.303	81.25	74.582	68.60	49.89	47.53
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		12.76	12.63	16.92	20.84	25.152	25.80	26.363	26.12	23.247	20.36	14.35	13.36
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		189.90	171.53	189.90	183.78	189.905	183.78	189.905	189.90	183.779	189.90	183.78	189.90
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.33	0.34	0.36	0.39	0.413	0.41	0.403	0.40	0.391	0.37	0.34	0.34
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.33	0.34	0.36	0.39	0.413	0.41	0.403	0.40	0.391	0.37	0.34	0.34
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.41**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-409											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	FIN (Facility Identification Number)					**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			358	0	0	0	0	0	0	0	1,025	1,115	0	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			19.19	17.34	19.19	18.58	19.19	18.58	19.19	19.19	18.58	19.19	18.58	19.19
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			517.67	522.67	524.67	530.67	540.67	546.07	547.67	549.67	546.67	540.67	524.67	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			517.67	522.67	524.67	530.67	540.67	546.07	547.67	549.67	546.67	540.67	524.67	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		516.44	521.02	524.62	531.05	540.35	545.71	547.49	548.65	544.89	537.87	523.88	521.94
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			516.44	521.02	524.62	531.05	540.35	545.71	547.49	548.65	544.89	537.87	523.88	521.94
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		520.80	525.62	529.48	536.03	545.25	550.53	552.46	553.67	549.81	542.82	528.54	526.32
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		512.09	516.41	519.75	526.07	535.45	540.89	542.52	543.63	539.98	532.91	519.22	517.55
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	SI	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.49	2.74	2.95	3.37	4.05	4.49	4.64	4.74	4.42	3.85	2.91	2.79
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.73	3.01	3.26	3.72	4.45	4.91	5.09	5.21	4.85	4.24	3.20	3.06
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.27	2.49	2.67	3.04	3.68	4.09	4.22	4.31	4.02	3.49	2.64	2.55
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.09	0.08	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		23.28	23.39	28.14	31.58	40.38	44.18	47.54	48.83	43.35	38.15	26.78	26.45
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		71.39	71.72	86.31	96.85	123.81	135.46	145.79	149.73	132.94	116.98	82.11	81.12
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		0.09	-	-	-	-	-	-	-	0.25	0.27	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		94.76	95.11	114.45	128.44	164.19	179.64	193.33	198.56	176.54	155.40	108.88	107.58
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.05	0.05	0.06	0.06	0.08	0.09	0.10	0.10	0.09	0.08	0.05	0.05
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.05**	**0.05**	**0.06**	**0.06**	**0.08**	**0.09**	**0.10**	**0.10**	**0.09**	**0.08**	**0.05**	**0.05**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**0.86**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		520.80	525.62	529.48	536.03	545.25	550.53	552.46	553.67	549.81	542.82	528.54	526.32
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.73	3.01	3.26	3.72	4.45	4.91	5.09	5.21	4.85	4.24	3.20	3.06
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.06	0.06	0.07	0.09	0.10	0.11	0.11	0.10	0.09	0.06	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		25.76	26.02	31.48	35.40	45.163	49.34	53.293	54.81	48.519	42.72	29.81	29.27
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		79.00	79.78	96.54	108.56	138.491	151.29	163.421	168.06	148.783	131.01	91.42	89.77
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		124.64	112.58	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.31	0.32	0.34	0.37	0.414	0.45	0.459	0.47	0.442	0.40	0.34	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.31	0.32	0.34	0.37	0.414	0.45	0.459	0.47	0.442	0.40	0.34	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.47**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-410											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	FIN (Facility Identification Number)					**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			73	73	73	73	73	73	73	73	73	73	73	73
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			233,891	130,155	220,720	16,152	269,591	328,645	349,125	362,728	339,578	379,171	351,348	374,432
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			35.54	32.10	35.54	34.40	35.54	34.40	35.54	35.54	34.40	35.54	34.40	35.54
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			533.67	532.67	533.67	548.67	549.67	547.67	548.67	550.67	548.67	542.67	535.67	533.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			533.67	532.67	533.67	548.67	549.67	547.67	548.67	550.67	548.67	542.67	535.67	533.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		527.11	527.79	530.66	543.00	546.46	546.98	548.35	549.56	546.48	539.49	531.24	527.18
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			527.11	527.79	530.66	543.00	546.46	546.98	548.35	549.56	546.48	539.49	531.24	527.18
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		531.24	532.18	535.32	547.81	551.21	551.67	553.18	554.42	551.21	544.23	535.67	531.33
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		522.98	523.40	526.00	538.20	541.71	542.30	543.53	544.70	541.75	534.75	526.81	523.03
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.11	3.15	3.34	4.26	4.55	4.60	4.72	4.83	4.55	3.98	3.38	3.11
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.38	3.44	3.67	4.67	4.98	5.02	5.16	5.28	4.98	4.36	3.69	3.39
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.85	2.88	3.04	3.88	4.15	4.20	4.30	4.40	4.16	3.62	3.09	2.86
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.06	0.06	0.09	0.09	0.09	0.10	0.10	0.09	0.08	0.07	0.06
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		64.96	59.60	70.48	90.47	101.18	99.09	105.67	108.63	97.96	86.27	69.12	65.06
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		169.26	155.30	183.67	235.75	263.67	258.23	275.36	283.08	255.28	224.82	180.12	169.55
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		25.76	14.34	24.31	1.78	29.69	36.20	38.45	39.95	37.40	41.76	38.70	41.24
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		259.98	229.24	278.46	328.01	394.55	393.52	419.48	431.67	390.64	352.86	287.94	275.85
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.13	0.11	0.14	0.16	0.20	0.20	0.21	0.22	0.20	0.18	0.14	0.14
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.13**	**0.11**	**0.14**	**0.16**	**0.20**	**0.20**	**0.21**	**0.22**	**0.20**	**0.18**	**0.14**	**0.14**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**2.02**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		531.24	532.18	535.32	547.81	551.21	551.67	553.18	554.42	551.21	544.23	535.67	531.33
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.38	3.44	3.67	4.67	4.98	5.02	5.16	5.28	4.98	4.36	3.69	3.39
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.07	0.10	0.10	0.10	0.11	0.11	0.10	0.09	0.07	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		71.42	65.91	78.43	100.99	112.832	110.35	118.070	121.49	109.201	96.15	76.50	71.58
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		186.11	171.76	204.38	263.16	294.024	287.55	307.674	316.60	284.561	250.56	199.35	186.53
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		56.19	50.75	56.19	54.38	56.193	54.38	56.193	56.19	54.380	56.19	54.38	56.19
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.42	0.43	0.46	0.58	0.622	0.63	0.648	0.66	0.622	0.54	0.46	0.42
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.42	0.43	0.46	0.58	0.622	0.63	0.648	0.66	0.622	0.54	0.46	0.42
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.66**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-412											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	FIN (Facility Identification Number)					**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			0	0	0	0	0	0	0	0	0	0	0	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			18.90	17.07	18.90	18.29	18.90	18.29	18.90	18.90	18.29	18.90	18.29	18.90
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			519.67	524.17	527.67	534.67	541.67	545.67	547.67	549.67	547.67	536.67	525.67	523.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			519.67	524.17	527.67	534.67	541.67	545.67	547.67	549.67	547.67	536.67	525.67	523.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		517.74	522.01	526.55	533.62	541.02	545.50	547.52	548.69	545.57	535.37	524.54	520.40
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			517.74	522.01	526.55	533.62	541.02	545.50	547.52	548.69	545.57	535.37	524.54	520.40
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		522.06	526.58	531.38	538.57	545.89	550.29	552.47	553.69	550.46	540.29	529.16	524.75
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		513.43	517.44	521.71	528.67	536.15	540.70	542.58	543.70	540.69	530.45	519.91	516.05
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.56	2.80	3.07	3.54	4.10	4.47	4.64	4.75	4.47	3.67	2.95	2.70
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.80	3.07	3.39	3.91	4.50	4.89	5.10	5.21	4.91	4.04	3.24	2.96
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.33	2.54	2.78	3.21	3.73	4.07	4.22	4.32	4.07	3.33	2.68	2.47
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		5.37	5.36	6.59	7.50	9.18	9.84	10.65	10.94	9.86	8.07	6.09	5.72
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		72.47	72.27	88.87	101.16	123.82	132.74	143.69	147.60	132.98	108.82	82.10	77.09
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		-	-	-	-	-	-	-	-	-	-	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		77.84	77.63	95.45	108.66	133.00	142.58	154.34	158.54	142.84	116.88	88.19	82.81
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.04	0.04	0.05	0.05	0.07	0.07	0.08	0.08	0.07	0.06	0.04	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.04**	**0.04**	**0.05**	**0.05**	**0.07**	**0.07**	**0.08**	**0.08**	**0.07**	**0.06**	**0.04**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**0.69**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		522.06	526.58	531.38	538.57	545.89	550.29	552.47	553.69	550.46	540.29	529.16	524.75
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.80	3.07	3.39	3.91	4.50	4.89	5.10	5.21	4.91	4.04	3.24	2.96
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		5.94	5.95	7.36	8.40	10.261	10.98	11.934	12.27	11.026	9.03	6.77	6.32
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		80.11	80.32	99.31	113.30	138.417	148.17	160.978	165.57	148.733	121.77	91.33	85.25
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		152.36	137.61	152.36	147.44	152.359	147.44	152.359	152.36	147.444	152.36	147.44	152.36
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.32	0.33	0.35	0.37	0.405	0.43	0.437	0.44	0.427	0.38	0.34	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.32	0.33	0.35	0.37	0.405	0.43	0.437	0.44	0.427	0.38	0.34	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.44**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-413											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		Units	Notes													
	EPN (Emission Point Number)					68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413
	FIN (Facility Identification Number)					68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413	68-95-413
	Product:					Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions	Petroleum Fractions
Tank Data	Diameter	D	ft			33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			400	0	0	0	0	0	0	0	1,542	1,415	0	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			25.01	22.59	25.01	24.21	25.01	24.21	25.01	25.01	24.21	25.01	24.21	25.01
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			520.67	525.87	529.67	535.67	542.67	545.67	547.77	549.67	547.17	538.67	527.67	526.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			520.67	525.87	529.67	535.67	542.67	545.67	547.77	549.67	547.17	538.67	527.67	526.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		518.34	523.04	527.78	534.21	541.61	545.46	547.55	548.65	545.21	536.60	525.77	522.57
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			518.34	523.04	527.78	534.21	541.61	545.46	547.55	548.65	545.21	536.60	525.77	522.57
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		522.69	527.65	532.64	539.19	546.51	550.28	552.52	553.67	550.12	541.56	530.43	526.96
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		513.99	518.43	522.91	529.23	536.72	540.64	542.58	543.63	540.30	531.65	521.11	518.19
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	SI	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		2.59	2.86	3.15	3.59	4.15	4.46	4.65	4.74	4.44	3.76	3.02	2.83
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		2.84	3.14	3.48	3.96	4.56	4.89	5.10	5.21	4.88	4.14	3.32	3.10
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		2.36	2.59	2.85	3.24	3.77	4.07	4.23	4.31	4.04	3.41	2.75	2.58
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		24.33	24.51	30.27	33.96	41.56	43.92	47.61	48.83	43.67	37.06	27.97	26.84
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		97.24	97.94	120.96	135.69	166.07	175.50	190.25	195.11	174.49	148.09	111.78	107.27
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		0.10	-	-	-	-	-	-	-	0.38	0.35	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		121.67	122.46	151.24	169.65	207.64	219.42	237.86	243.94	218.53	185.50	139.75	134.11
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.06	0.06	0.08	0.08	0.10	0.11	0.12	0.12	0.11	0.09	0.07	0.07
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.06**	**0.06**	**0.08**	**0.08**	**0.10**	**0.11**	**0.12**	**0.12**	**0.11**	**0.09**	**0.07**	**0.07**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**1.08**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		522.69	527.65	532.64	539.19	546.51	550.28	552.52	553.67	550.12	541.56	530.43	526.96
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			2.84	3.14	3.48	3.96	4.56	4.89	5.10	5.21	4.88	4.14	3.32	3.10
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.06	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		26.92	27.26	33.85	38.06	46.489	49.05	53.370	54.81	48.872	41.51	31.14	29.70
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		107.57	108.93	135.26	152.07	185.767	196.01	213.264	219.00	195.291	165.85	124.43	118.70
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		124.64	112.58	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.35	0.37	0.39	0.43	0.480	0.51	0.526	0.54	0.507	0.45	0.38	0.37
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.35	0.37	0.39	0.43	0.480	0.51	0.526	0.54	0.507	0.45	0.38	0.37
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.54**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-411											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	FIN (Facility Identification Number)					**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	Product:					**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**
Tank Data	Diameter	D	ft			33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		358	358	358	358	358	358	358	358	358	358	358	358
	Monthly Throughput	Q	bbls/month			113,511	102,009	134,937	131,295	144,419	131,541	136,858	118,179	118,228	133,137	131,874	139,057
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			25.01	22.59	25.01	24.21	25.01	24.21	25.01	25.01	24.21	25.01	24.21	25.01
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			516.67	527.67	529.67	531.67	534.67	532.67	539.67	542.67	537.67	532.67	527.67	514.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			516.67	527.67	529.67	531.67	537.50	542.70	544.75	544.64	539.87	532.67	527.67	514.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		515.81	524.16	527.77	531.68	538.34	543.58	545.64	545.47	540.59	532.80	525.76	514.98
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			515.81	524.16	527.77	531.68	538.34	543.58	545.64	545.47	540.59	532.80	525.76	514.98
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		520.17	528.78	532.64	536.67	543.25	548.40	550.62	550.50	545.51	537.77	530.43	519.38
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		511.45	519.55	522.89	526.69	533.44	538.75	540.67	540.44	535.67	527.84	521.10	510.59
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		1.05	1.32	1.45	1.61	1.92	2.19	2.31	2.30	2.03	1.66	1.38	1.02
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		1.18	1.49	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.56	1.16
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		0.93	1.16	1.27	1.41	1.69	1.94	2.03	2.02	1.79	1.46	1.21	0.90
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		9.89	11.35	13.92	15.03	18.68	20.86	22.80	22.70	19.22	16.02	12.73	9.66
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		39.52	45.37	55.61	60.04	74.63	83.36	91.12	90.70	76.82	64.02	50.86	38.58
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		36.04	32.39	42.84	41.68	45.85	41.76	43.45	37.52	37.54	42.27	41.87	44.15
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		85.45	89.11	112.37	116.75	139.15	145.98	157.38	150.92	133.58	122.31	105.46	92.39
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.04	0.04	0.06	0.06	0.07	0.07	0.08	0.08	0.07	0.06	0.05	0.05
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.04**	**0.04**	**0.06**	**0.06**	**0.07**	**0.07**	**0.08**	**0.08**	**0.07**	**0.06**	**0.05**	**0.05**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**0.73**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		520.17	528.78	532.64	536.67	543.25	548.40	550.62	550.50	545.51	537.77	530.43	519.38
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			1.18	1.49	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.56	1.16
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VX}/P_A/(1+(1-(P_{VX}/P_A))^{0.5})^2$		0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		11.21	12.93	15.95	17.26	21.363	23.79	26.101	26.02	21.989	18.38	14.51	10.96
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		44.81	51.68	63.73	68.96	85.364	95.05	104.296	103.96	87.867	73.45	57.99	43.81
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		84.56	76.38	84.56	81.83	84.562	81.83	84.562	84.56	81.834	84.56	81.83	84.56
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.19	0.21	0.22	0.23	0.257	0.28	0.289	0.29	0.266	0.24	0.21	0.19
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.19	0.21	0.22	0.23	0.257	0.28	0.289	0.29	0.266	0.24	0.21	0.19
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.29**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-216											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
				Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	FIN (Facility Identification Number)				**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	Product:				**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**
Tank Data	Diameter	D	ft		100	100	100	100	100	100	100	100	100	100	100	100
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month		29,138	13,734	13,734	25,500	21,839	38,969	40,317	31,189	51,947	59,910	45,579	20,696
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		60.51	61.07	70.60	74.33	64.71	45.13	37.04	35.12	37.78	46.64	50.95	57.81
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		516.67	520.67	523.67	528.67	537.67	543.67	545.67	546.67	544.67	538.67	524.17	522.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$	513.89	517.63	523.81	530.83	538.82	544.07	546.14	545.94	541.00	532.35	522.01	515.11
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		516.67	520.67	523.81	530.83	538.82	544.07	546.14	546.67	544.67	538.67	524.17	522.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	515.14	519.05	524.47	531.65	539.73	545.03	547.11	547.06	542.88	534.89	523.12	517.76
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		515.14	519.05	524.47	531.65	539.73	545.03	547.11	547.06	542.88	534.89	523.12	517.76
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	519.16	523.32	529.03	536.36	544.40	549.65	551.86	551.83	547.52	539.52	527.43	521.80
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	511.13	514.78	519.92	526.94	535.06	540.42	542.36	542.28	538.24	530.26	518.82	513.73
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Liquid Density	W_L	lb/gal		7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92
	C-C Vapor Pressure Equation Constant B	B	°R		8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	0.29	0.32	0.38	0.47	0.60	0.70	0.74	0.74	0.65	0.52	0.37	0.31
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	0.32	0.37	0.44	0.54	0.68	0.79	0.84	0.84	0.75	0.59	0.42	0.35
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	0.25	0.28	0.33	0.41	0.52	0.61	0.64	0.64	0.57	0.45	0.32	0.27
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	14.37	15.47	20.67	25.86	31.33	30.20	29.48	28.64	25.96	23.21	16.70	15.27
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	27.52	31.41	42.96	56.22	62.17	50.56	44.04	41.69	39.78	38.86	29.74	28.56
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	2.98	1.41	1.41	2.61	2.24	3.99	4.13	3.19	5.32	6.14	4.67	2.12
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	44.87	48.29	65.04	84.70	95.74	84.75	77.65	73.52	71.06	68.21	51.11	45.95
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.02	0.02	0.03	0.04	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.02**	**0.02**	**0.03**	**0.04**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.03**	**0.03**	**0.02**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.41**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	519.16	523.32	529.03	536.36	544.40	549.65	551.86	551.83	547.52	539.52	527.43	521.80
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		0.32	0.37	0.44	0.54	0.68	0.79	0.84	0.84	0.75	0.59	0.42	0.35
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	16.31	17.66	23.75	29.75	35.877	34.45	33.738	32.79	29.662	26.60	19.05	17.32
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	31.23	35.87	49.36	64.68	71.185	57.68	50.390	47.74	45.447	44.53	33.93	32.39
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	326.54	294.94	326.54	316.01	326.541	316.01	326.541	326.54	316.007	326.54	316.01	326.54
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.50	0.52	0.54	0.57	0.583	0.57	0.552	0.55	0.543	0.53	0.51	0.51
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.50	0.52	0.54	0.57	0.583	0.57	0.552	0.55	0.543	0.53	0.51	0.51
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.58**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-207											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207
	FIN (Facility Identification Number)					68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207	68-95-207
	Product:					Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline	Light Straight Run Gasoline
Tank Data	Diameter	D	ft			134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125
	Monthly Throughput	Q	bbls/month			47,969	63,370	63,370	134,810	134,291	118,706	127,686	139,108	123,758	127,445	130,974	128,352
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			62.22	62.63	72.33	76.01	66.43	46.76	38.70	36.77	39.39	48.32	52.59	59.52
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			518.67	521.67	527.17	533.67	542.17	546.67	549.67	550.67	547.67	540.67	526.67	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			518.67	521.67	527.17	533.67	542.17	546.67	549.67	550.67	547.67	540.67	526.67	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		515.74	519.35	525.48	532.50	540.74	545.81	548.16	548.26	543.78	535.49	523.87	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			515.74	519.35	525.48	532.50	540.74	545.81	548.16	548.26	543.78	535.49	523.87	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		519.66	523.53	529.95	537.13	545.34	550.37	552.85	552.96	548.34	540.03	528.08	522.60
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		511.82	515.17	521.01	527.87	536.13	541.25	543.48	543.55	539.22	530.96	519.67	514.73
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	Slope	Sl	°F/vol %			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30
	C-C Vapor Pressure Equation Constant B	B	°R			6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.82	4.15	4.77	5.57	6.64	7.39	7.76	7.77	7.08	5.94	4.60	4.09
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		4.18	4.57	5.27	6.16	7.32	8.11	8.53	8.55	7.78	6.55	5.06	4.47
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.49	3.77	4.31	5.03	6.02	6.72	7.04	7.05	6.44	5.39	4.18	3.73
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.12	0.15	0.17	0.19	0.19	0.16	0.13	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		217.22	227.89	304.01	370.82	445.62	426.64	420.87	410.49	367.77	328.30	245.02	229.98
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		319.25	354.20	483.01	615.22	677.39	552.28	490.13	467.00	438.45	424.99	336.20	330.42
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		2.84	3.75	3.75	7.97	7.94	7.02	7.55	8.22	7.32	7.53	7.74	7.59
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		539.30	585.84	790.77	994.01	1,130.95	985.93	918.55	885.72	813.53	760.82	588.96	567.99
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.27	0.29	0.40	0.50	0.57	0.49	0.46	0.44	0.41	0.38	0.29	0.28
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.27**	**0.29**	**0.40**	**0.50**	**0.57**	**0.49**	**0.46**	**0.44**	**0.41**	**0.38**	**0.29**	**0.28**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**4.78**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		519.66	523.53	529.95	537.13	545.34	550.37	552.85	552.96	548.34	540.03	528.08	522.60
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			4.18	4.57	5.27	6.16	7.32	8.11	8.53	8.55	7.78	6.55	5.06	4.47
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.09	0.11	0.14	0.17	0.20	0.21	0.22	0.19	0.15	0.11	0.09
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		241.45	255.18	343.49	421.88	509.063	488.95	485.673	473.99	420.669	373.02	274.74	255.79
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		354.86	396.61	545.74	699.93	773.827	632.94	565.589	539.24	501.524	482.88	376.99	367.50
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		93.46	84.41	93.46	90.44	93.458	90.44	93.458	93.46	90.444	93.46	90.44	93.46
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.93	1.10	1.32	1.68	1.850	1.68	1.539	1.49	1.406	1.28	1.03	0.96
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.93	1.10	1.32	1.68	1.850	1.68	1.539	1.49	1.406	1.28	1.03	0.96
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.85**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-85											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**
	FIN (Facility Identification Number)					**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**
	Product:					**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			53,245	33,966	60,657	65,241	54,702	64,039	67,258	65,184	58,140	67,496	61,377	32,580
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			534.67	528.67	539.67	544.17	549.17	550.67	551.67	552.67	552.67	543.67	535.67	521.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			534.67	528.67	539.67	544.17	549.17	550.67	551.67	552.67	552.67	543.67	535.67	521.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		526.96	524.67	533.90	539.40	545.56	548.49	549.89	550.42	548.52	539.60	530.66	519.32
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			526.96	524.67	533.90	539.40	545.56	548.49	549.89	550.42	548.52	539.60	530.66	519.32
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		531.40	529.36	538.85	544.45	550.52	553.36	554.92	555.51	553.50	544.65	535.42	523.80
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		522.52	519.97	528.95	534.34	540.60	543.61	544.87	545.33	543.53	534.56	525.91	514.84
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		1.42	1.34	1.71	1.97	2.30	2.47	2.56	2.60	2.48	1.98	1.57	1.16
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		1.60	1.52	1.94	2.24	2.60	2.79	2.90	2.94	2.80	2.25	1.78	1.31
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		1.26	1.18	1.50	1.73	2.03	2.19	2.26	2.29	2.19	1.74	1.38	1.02
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		9.31	7.88	11.31	12.74	15.58	16.32	17.52	17.77	16.34	13.24	10.00	7.49
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		19.88	16.83	24.14	27.19	33.25	34.84	37.40	37.94	34.87	28.26	21.35	15.99
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		23.02	14.69	26.23	28.21	23.65	27.69	29.08	28.19	25.14	29.18	26.54	14.09
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		52.21	39.40	61.67	68.14	72.48	78.86	84.01	83.90	76.34	70.68	57.88	37.57
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.03**	**0.02**	**0.03**	**0.03**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.03**	**0.02**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.39**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		531.40	529.36	538.85	544.45	550.52	553.36	554.92	555.51	553.50	544.65	535.42	523.80
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			1.60	1.52	1.94	2.24	2.60	2.79	2.90	2.94	2.80	2.25	1.78	1.31
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.05	0.04	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		10.55	9.00	12.96	14.63	17.820	18.63	20.073	20.39	18.695	15.20	11.41	8.52
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		22.52	19.21	27.67	31.22	38.038	39.76	42.848	43.53	39.904	32.44	24.36	18.18
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		247.71	223.74	247.71	239.72	247.707	239.72	247.707	247.71	239.716	247.71	239.72	247.71
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.38	0.37	0.39	0.40	0.408	0.41	0.418	0.42	0.414	0.40	0.38	0.37
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.38	0.37	0.39	0.40	0.408	0.41	0.418	0.42	0.414	0.40	0.38	0.37
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.42**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-86											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**
	FIN (Facility Identification Number)					**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**
	Product:					**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		535	535	535	535	535	535	535	535	535	535	535	535
	Monthly Throughput	Q	bbls/month			33,477	13,426	32,896	36,139	26,704	34,835	44,511	47,155	34,093	41,999	37,921	50,690
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			534.67	540.67	539.67	543.67	548.67	550.67	550.67	552.67	553.67	543.67	544.67	542.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			534.67	540.67	539.67	543.67	548.67	550.67	550.67	552.67	553.67	543.67	544.67	542.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		526.96	532.13	533.90	539.09	545.25	548.49	549.27	550.42	549.14	539.60	536.27	532.39
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			526.96	532.13	533.90	539.09	545.25	548.49	549.27	550.42	549.14	539.60	536.27	532.39
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		531.40	536.83	538.85	544.14	550.20	553.36	554.30	555.51	554.12	544.65	541.02	536.87
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		522.52	527.44	528.95	534.03	540.29	543.61	544.24	545.33	544.15	534.56	531.51	527.91
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		1.42	1.63	1.71	1.95	2.28	2.47	2.52	2.60	2.51	1.98	1.82	1.64
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		1.60	1.84	1.94	2.22	2.58	2.79	2.85	2.94	2.84	2.25	2.05	1.85
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		1.26	1.44	1.50	1.71	2.01	2.19	2.23	2.29	2.22	1.74	1.60	1.46
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.03
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		9.31	9.72	11.31	12.63	15.44	16.32	17.23	17.77	16.61	13.24	11.68	10.84
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		19.88	20.76	24.14	26.96	32.97	34.84	36.78	37.94	35.46	28.26	24.94	23.14
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		14.47	5.81	14.22	15.63	11.55	15.06	19.25	20.39	14.74	18.16	16.40	21.92
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		43.67	36.29	49.67	55.21	59.96	66.23	73.25	76.10	66.82	59.65	53.02	55.90
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.02**	**0.02**	**0.02**	**0.03**	**0.03**	**0.03**	**0.04**	**0.04**	**0.03**	**0.03**	**0.03**	**0.03**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.35**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		531.40	536.83	538.85	544.14	550.20	553.36	554.30	555.51	554.12	544.65	541.02	536.87
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			1.60	1.84	1.94	2.22	2.58	2.79	2.85	2.94	2.84	2.25	2.05	1.85
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.05	0.04	0.04	0.03
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		10.55	11.08	12.96	14.50	17.671	18.63	19.739	20.39	19.011	15.20	13.32	12.28
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		22.52	23.64	27.67	30.96	37.719	39.76	42.134	43.53	40.580	32.44	28.43	26.20
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		172.11	155.45	172.11	166.56	172.108	166.56	172.108	172.11	166.556	172.11	166.56	172.11
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.28	0.28	0.29	0.29	0.306	0.31	0.314	0.32	0.314	0.30	0.29	0.28
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.28	0.28	0.29	0.29	0.306	0.31	0.314	0.32	0.314	0.30	0.29	0.28
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.32**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-87											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**
	FIN (Facility Identification Number)					**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**	**68-95-87**
	Product:					**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**	**Benzene/Cyclohexane**
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		535	535	535	535	535	535	535	535	535	535	535	535
	Monthly Throughput	Q	bbls/month			33	708	406	126	17	0	0	809	0	0	0	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.97	9.01	9.97	9.65	9.97	9.65	9.97	9.97	9.65	9.97	9.65	9.97
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			518.67	522.67	525.67	531.67	538.67	542.67	544.67	546.67	544.67	535.67	522.67	522.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			518.67	522.67	525.67	531.67	538.67	542.70	544.75	546.67	544.67	535.67	522.67	522.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		517.00	520.93	525.18	531.62	539.02	543.53	545.59	546.69	543.54	534.63	522.57	519.63
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			517.00	520.93	525.18	531.62	539.02	543.53	545.59	546.69	543.54	534.63	522.57	519.63
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		521.44	525.63	530.13	536.67	543.98	548.40	550.62	551.77	548.52	539.67	527.33	524.11
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		512.56	516.24	520.23	526.56	534.06	538.65	540.56	541.60	538.55	529.58	517.82	515.15
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		1.08	1.21	1.36	1.61	1.95	2.19	2.30	2.37	2.19	1.74	1.26	1.17
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		1.22	1.37	1.55	1.84	2.21	2.47	2.61	2.68	2.48	1.98	1.44	1.32
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		0.96	1.06	1.18	1.41	1.72	1.93	2.03	2.08	1.93	1.53	1.11	1.03
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		7.01	7.09	8.86	10.27	13.03	14.26	15.59	16.06	14.27	11.54	7.96	7.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		14.96	15.13	18.91	21.92	27.81	30.44	33.28	34.28	30.45	24.63	16.99	16.14
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		0.01	0.31	0.18	0.05	0.01	-	-	0.35	-	0.00	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		21.98	22.52	27.94	32.25	40.84	44.71	48.87	50.70	44.72	36.17	24.95	23.70
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.01	0.01
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.03**	**0.02**	**0.02**	**0.01**	**0.01**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.21**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		521.44	525.63	530.13	536.67	543.98	548.40	550.62	551.77	548.52	539.67	527.33	524.11
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			1.22	1.37	1.55	1.84	2.21	2.47	2.61	2.68	2.48	1.98	1.44	1.32
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VX}/P_A/(1+(1-(P_{VX}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		7.96	8.10	10.18	11.82	14.922	16.29	17.870	18.44	16.339	13.26	9.11	8.59
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		17.00	17.29	21.73	25.22	31.851	34.76	38.145	39.35	34.876	28.30	19.44	18.34
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		172.11	155.45	172.11	166.56	172.108	166.56	172.108	172.11	166.556	172.11	166.56	172.11
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.26	0.27	0.27	0.28	0.294	0.30	0.307	0.31	0.302	0.29	0.27	0.27
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.26	0.27	0.27	0.28	0.294	0.30	0.307	0.31	0.302	0.29	0.27	0.27
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.31**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-66											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		Units	Notes													
	EPN (Emission Point Number)					68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66
	FIN (Facility Identification Number)					68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66
	Product:					Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions
Tank Data	Diameter	D	ft			150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			99,857	26,169	26,169	701,271	662,782	757,729	844,104	781,946	605,777	606,698	556,718	783,857
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			57.82	58.58	67.82	71.60	61.98	42.66	34.60	32.70	35.39	44.08	48.42	55.14
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			515.67	518.67	535.67	542.67	552.67	553.67	555.67	555.67	553.67	548.67	541.17	539.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			515.67	518.67	535.67	542.67	552.67	553.67	555.67	555.67	553.67	548.67	541.17	539.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		514.84	518.45	528.03	535.20	543.89	547.91	549.96	549.76	545.58	537.89	528.22	522.86
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			514.84	518.45	528.03	535.20	543.89	547.91	549.96	549.76	545.58	537.89	528.22	522.86
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		514.84	518.45	528.03	535.20	543.89	547.91	549.96	549.76	545.58	537.89	528.22	522.86
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		514.84	518.45	528.03	535.20	543.89	547.91	549.96	549.76	545.58	537.89	528.22	522.86
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		3.51	3.78	4.57	5.25	6.17	6.64	6.89	6.87	6.37	5.52	4.59	4.13
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		3.51	3.78	4.57	5.25	6.17	6.64	6.89	6.87	6.37	5.52	4.59	4.13
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		3.51	3.78	4.57	5.25	6.17	6.64	6.89	6.87	6.37	5.52	4.59	4.13
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		214.09	221.78	313.68	373.77	438.68	399.84	386.87	374.36	345.54	324.61	265.29	252.85
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		261.19	288.04	417.47	521.77	555.81	421.82	359.83	338.36	330.66	342.46	299.38	300.68
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		5.27	1.38	1.38	37.03	35.00	40.01	44.58	41.29	31.99	32.04	29.40	41.39
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		480.55	511.20	732.53	932.57	1,029.49	861.68	791.27	754.02	708.20	699.11	594.07	594.92
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.24	0.26	0.37	0.47	0.51	0.43	0.40	0.38	0.35	0.35	0.30	0.30
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.24**	**0.26**	**0.37**	**0.47**	**0.51**	**0.43**	**0.40**	**0.38**	**0.35**	**0.35**	**0.30**	**0.30**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**4.34**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		514.84	518.45	528.03	535.20	543.89	547.91	549.96	549.76	545.58	537.89	528.22	522.86
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			3.51	3.78	4.57	5.25	6.17	6.64	6.89	6.87	6.37	5.52	4.59	4.13
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		214.09	221.78	313.68	373.77	438.675	399.84	386.868	374.36	345.543	324.61	265.29	252.85
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		261.19	288.04	417.47	521.77	555.814	421.82	359.829	338.36	330.665	342.46	299.38	300.68
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		86.44	78.07	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.75	0.87	1.10	1.36	1.453	1.26	1.120	1.07	1.055	1.01	0.90	0.86
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.75	0.87	1.10	1.36	1.453	1.26	1.120	1.07	1.055	1.01	0.90	0.86
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**1.45**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-74											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		Units	Notes													
	EPN (Emission Point Number)					68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74
	FIN (Facility Identification Number)					68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74	68-95-74
	Product:					Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions
Tank Data	Diameter	D	ft			150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			1,199,273	69,274	69,274	152,888	221,921	131,772	71,806	164,220	295,516	299,104	339,006	157,125
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			10.95	10.11	11.30	11.12	11.10	10.07	9.95	9.85	9.73	10.40	10.31	10.85
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			527.67	540.67	537.67	531.67	536.67	541.67	542.67	543.67	542.67	535.67	520.67	520.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			527.67	540.67	537.67	531.67	538.98	544.25	546.32	546.10	542.67	535.67	522.10	520.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		518.44	525.05	528.63	531.90	539.78	545.08	547.16	546.89	542.28	533.99	522.50	517.16
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			518.44	525.05	528.63	531.90	539.78	545.08	547.16	546.89	542.28	533.99	522.50	517.16
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		518.44	525.05	528.63	531.90	539.78	545.08	547.16	546.89	542.28	533.99	522.50	517.16
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		518.44	525.05	528.63	531.90	539.78	545.08	547.16	546.89	542.28	533.99	522.50	517.16
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		3.78	4.31	4.63	4.93	5.72	6.31	6.55	6.52	5.99	5.13	4.10	3.68
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		3.78	4.31	4.63	4.93	5.72	6.31	6.55	6.52	5.99	5.13	4.10	3.68
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		3.78	4.31	4.63	4.93	5.72	6.31	6.55	6.52	5.99	5.13	4.10	3.68
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.09	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		232.96	258.89	318.13	345.75	397.52	373.26	361.14	348.93	319.09	295.96	231.97	221.22
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		53.82	58.05	70.52	74.99	90.18	92.91	96.62	95.02	83.93	73.67	55.73	51.76
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		63.33	3.66	3.66	8.07	11.72	6.96	3.79	8.67	15.61	15.80	17.90	8.30
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		350.12	320.59	392.31	428.82	499.42	473.13	461.55	452.62	418.62	385.42	305.60	281.27
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.18	0.16	0.20	0.21	0.25	0.24	0.23	0.23	0.21	0.19	0.15	0.14
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.18**	**0.16**	**0.20**	**0.21**	**0.25**	**0.24**	**0.23**	**0.23**	**0.21**	**0.19**	**0.15**	**0.14**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**2.38**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		518.44	525.05	528.63	531.90	539.78	545.08	547.16	546.89	542.28	533.99	522.50	517.16
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			3.78	4.31	4.63	4.93	5.72	6.31	6.55	6.52	5.99	5.13	4.10	3.68
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.09	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		232.96	258.89	318.13	345.75	397.519	373.26	361.141	348.93	319.090	295.96	231.97	221.22
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		53.82	58.05	70.52	74.99	90.177	92.91	96.620	95.02	83.927	73.67	55.73	51.76
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		86.44	78.07	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.50	0.59	0.64	0.70	0.772	0.76	0.731	0.71	0.676	0.61	0.52	0.48
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.50	0.59	0.64	0.70	0.772	0.76	0.731	0.71	0.676	0.61	0.52	0.48
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.77**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-75											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**
	FIN (Facility Identification Number)					**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			0	6,964	6,964	15,522	24,860	27,234	12,335	12,215	6,703	16,697	11,922	17,065
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			61.05	61.56	71.14	74.86	65.25	45.64	37.56	35.63	38.28	47.17	51.46	58.35
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			519.17	518.17	522.17	527.67	537.67	547.67	552.67	554.67	553.67	556.67	536.67	537.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			519.17	518.17	523.91	530.95	538.95	547.67	552.67	554.67	553.67	556.67	536.67	537.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		515.89	518.30	524.50	531.68	539.77	546.11	549.06	549.46	545.58	540.29	526.87	522.26
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			515.89	518.30	524.50	531.68	539.77	546.11	549.06	549.46	545.58	540.29	526.87	522.26
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		515.89	518.30	524.50	531.68	539.77	546.11	549.06	549.46	545.58	540.29	526.87	522.26
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		515.89	518.30	524.50	531.68	539.77	546.11	549.06	549.46	545.58	540.29	526.87	522.26
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.59	3.77	4.27	4.91	5.72	6.43	6.78	6.83	6.37	5.77	4.47	4.08
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.59	3.77	4.27	4.91	5.72	6.43	6.78	6.83	6.37	5.77	4.47	4.08
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.59	3.77	4.27	4.91	5.72	6.43	6.78	6.83	6.37	5.77	4.47	4.08
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		175.55	176.80	231.01	275.20	317.95	306.14	302.71	297.28	276.43	274.98	205.61	199.46
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		282.67	301.62	403.13	502.12	530.12	431.94	382.04	365.98	357.67	387.97	308.30	313.70
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		-	0.46	0.46	1.02	1.64	1.80	0.81	0.81	0.44	1.10	0.79	1.13
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		458.22	478.87	634.59	778.35	849.71	739.87	685.57	664.07	634.55	664.05	514.70	514.28
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.23	0.24	0.32	0.39	0.42	0.37	0.34	0.33	0.32	0.33	0.26	0.26
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.23**	**0.24**	**0.32**	**0.39**	**0.42**	**0.37**	**0.34**	**0.33**	**0.32**	**0.33**	**0.26**	**0.26**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.81**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		515.89	518.30	524.50	531.68	539.77	546.11	549.06	549.46	545.58	540.29	526.87	522.26
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.59	3.77	4.27	4.91	5.72	6.43	6.78	6.83	6.37	5.77	4.47	4.08
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		175.55	176.80	231.01	275.20	317.946	306.14	302.711	297.28	276.435	274.98	205.61	199.46
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		282.67	301.62	403.13	502.12	530.124	431.94	382.044	365.98	357.669	387.97	308.30	313.70
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		108.05	97.59	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.76	0.86	1.00	1.22	1.285	1.17	1.066	1.04	1.026	1.04	0.86	0.83
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.76	0.86	1.00	1.22	1.285	1.17	1.066	1.04	1.026	1.04	0.86	0.83
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.29**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-76											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76
	FIN (Facility Identification Number)					68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76	68-95-76
	Product:					Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions	Light Petroleum Fractions
Tank Data	Diameter	D	ft			120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			1,199,273	773,018	773,018	1,766,585	1,801,713	1,786,969	1,881,733	1,905,388	1,857,328	1,844,653	1,869,124	1,891,812
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			10.74	9.92	11.09	10.92	10.89	9.87	9.75	9.65	9.53	10.20	10.11	10.64
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			540.67	543.67	540.67	546.67	555.67	551.67	554.67	554.67	553.67	556.67	536.67	537.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			540.67	543.67	540.67	546.67	555.67	551.67	554.67	554.67	553.67	556.67	536.67	537.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		522.34	525.95	529.53	536.40	544.79	547.31	549.66	549.46	545.58	540.29	526.87	522.26
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			522.34	525.95	529.53	536.40	544.79	547.31	549.66	549.46	545.58	540.29	526.87	522.26
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		522.34	525.95	529.53	536.40	544.79	547.31	549.66	549.46	545.58	540.29	526.87	522.26
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		522.34	525.95	529.53	536.40	544.79	547.31	549.66	549.46	545.58	540.29	526.87	522.26
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		4.09	4.39	4.71	5.37	6.27	6.57	6.85	6.83	6.37	5.77	4.47	4.08
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		4.09	4.39	4.71	5.37	6.27	6.57	6.85	6.83	6.37	5.77	4.47	4.08
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		4.09	4.39	4.71	5.37	6.27	6.57	6.85	6.83	6.37	5.77	4.47	4.08
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.09	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		204.22	211.53	259.95	307.64	358.66	315.22	307.21	297.28	276.43	274.98	205.61	199.46
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		57.86	58.18	70.69	81.87	99.79	96.16	100.68	99.15	89.07	83.89	60.55	57.22
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		79.16	51.03	51.03	116.61	118.93	117.96	124.21	125.77	122.60	121.77	123.38	124.88
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		341.24	320.73	381.66	506.12	577.38	529.34	532.10	522.20	488.11	480.63	389.55	381.55
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.17	0.16	0.19	0.25	0.29	0.26	0.27	0.26	0.24	0.24	0.19	0.19
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.17**	**0.16**	**0.19**	**0.25**	**0.29**	**0.26**	**0.27**	**0.26**	**0.24**	**0.24**	**0.19**	**0.19**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**2.73**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		522.34	525.95	529.53	536.40	544.79	547.31	549.66	549.46	545.58	540.29	526.87	522.26
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			4.09	4.39	4.71	5.37	6.27	6.57	6.85	6.83	6.37	5.77	4.47	4.08
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.09	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.12	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		204.22	211.53	259.95	307.64	358.656	315.22	307.214	297.28	276.435	274.98	205.61	199.46
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		57.86	58.18	70.69	81.87	99.791	96.16	100.677	99.15	89.071	83.89	60.55	57.22
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		108.05	97.59	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.50	0.55	0.59	0.69	0.761	0.72	0.693	0.68	0.653	0.63	0.51	0.49
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.50	0.55	0.59	0.69	0.761	0.72	0.693	0.68	0.653	0.63	0.51	0.49
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.76**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	**68-95-98**												
				Month	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
				Year	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**	**2019**
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**
	FIN (Facility Identification Number)				**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**	**68-95-98**
	Product:				**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft		130	130	130	130	130	130	130	130	130	130	130	130
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft		42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
	Monthly Throughput	Q	bbls/month		111,540	0	0	8,375	0	0	0	0	0	0	0	0
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		61.24	61.68	71.26	74.93	65.41	45.94	37.96	36.06	38.65	47.47	51.71	58.56
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		515.67	516.67	519.67	532.67	541.67	545.67	546.67	546.67	544.67	529.67	534.67	534.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	513.97	517.72	523.92	530.97	538.98	544.24	546.31	546.09	541.13	532.47	522.09	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		515.67	517.72	523.92	532.67	541.67	545.67	546.67	546.67	544.67	532.47	534.67	534.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	526.27	521.36
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	526.27	521.36
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	526.27	521.36
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	526.27	521.36
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$T_{BX} - T_{BN}$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R		5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.42	4.01
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.42	4.01
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.42	4.01
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	185.54	190.92	250.29	301.78	351.21	326.85	313.80	303.67	280.56	250.74	219.63	211.57
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	276.64	301.25	403.82	508.72	541.85	428.48	369.50	349.21	338.33	328.70	305.45	308.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	6.80	-	-	0.51	-	-	-	-	-	-	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	468.98	492.17	654.11	811.01	893.07	755.33	683.30	652.87	618.89	579.44	525.08	519.83
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.23	0.25	0.33	0.41	0.45	0.38	0.34	0.33	0.31	0.29	0.26	0.26
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.23**	**0.25**	**0.33**	**0.41**	**0.45**	**0.38**	**0.34**	**0.33**	**0.31**	**0.29**	**0.26**	**0.26**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**3.83**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	526.27	521.36
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.42	4.01
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	185.54	190.92	250.29	301.78	351.215	326.85	313.796	303.67	280.562	250.74	219.63	211.57
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	276.64	301.25	403.82	508.72	541.851	428.48	369.504	349.21	338.331	328.70	305.45	308.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	136.00	122.84	136.00	131.61	136.001	131.61	136.001	136.00	131.614	136.00	131.61	136.00
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)	0.80	0.92	1.06	1.31	1.383	1.23	1.101	1.06	1.042	0.96	0.91	0.88
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.80	0.92	1.06	1.31	1.383	1.23	1.101	1.06	1.042	0.96	0.91	0.88
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**1.38**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-206											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	FIN (Facility Identification Number)					**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	Product:					**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft			134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month			70,466	158,626	158,626	191,992	405,905	243,569	266,358	227,509	232,372	259,292	262,848	208,413
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			58.26	59.01	68.30	72.09	62.44	43.02	34.91	33.00	35.71	44.45	48.81	55.57
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			517.67	517.67	523.17	529.67	541.67	550.27	547.67	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			517.67	517.75	523.97	531.03	541.67	550.27	547.67	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		515.44	518.17	524.52	531.71	540.59	546.89	547.56	549.16	543.18	535.19	524.02	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			515.44	518.17	524.52	531.71	540.59	546.89	547.56	549.16	543.18	535.19	524.02	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		515.44	518.17	524.52	531.71	540.59	546.89	547.56	549.16	543.18	535.19	524.02	518.66
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		515.44	518.17	524.52	531.71	540.59	546.89	547.56	549.16	543.18	535.19	524.02	518.66
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R			5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.19	3.38	3.84	4.43	5.25	5.90	5.98	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.19	3.38	3.84	4.43	5.25	5.90	5.98	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.19	3.38	3.84	4.43	5.25	5.90	5.98	6.15	5.51	4.74	3.81	3.41
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.13	0.13	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		176.83	179.41	235.01	279.57	328.19	314.87	294.35	297.40	263.76	247.07	195.59	186.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		243.33	262.73	352.61	439.88	468.92	374.96	309.24	303.67	285.06	294.22	249.06	250.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		4.17	9.38	9.38	11.35	23.99	14.40	15.75	13.45	13.74	15.33	15.54	12.32
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		424.33	451.51	597.00	730.80	821.11	704.23	619.34	614.51	562.56	556.62	460.18	449.14
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.21	0.23	0.30	0.37	0.41	0.35	0.31	0.31	0.28	0.28	0.23	0.22
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.21**	**0.23**	**0.30**	**0.37**	**0.41**	**0.35**	**0.31**	**0.31**	**0.28**	**0.28**	**0.23**	**0.22**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.50**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		515.44	518.17	524.52	531.71	540.59	546.89	547.56	549.16	543.18	535.19	524.02	518.66
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.19	3.38	3.84	4.43	5.25	5.90	5.98	6.15	5.51	4.74	3.81	3.41
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.13	0.13	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		176.83	179.41	235.01	279.57	328.191	314.87	294.351	297.40	263.763	247.07	195.59	186.56
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		243.33	262.73	352.61	439.88	468.923	374.96	309.242	303.67	285.061	294.22	249.06	250.26
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		72.57	65.54	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.66	0.76	0.89	1.10	1.169	1.06	0.909	0.91	0.860	0.83	0.72	0.68
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.66	0.76	0.89	1.10	1.169	1.06	0.909	0.91	0.860	0.83	0.72	0.68
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.17**											

Baseline Actual Emissions: 2019
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-210											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	FIN (Facility Identification Number)					**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	Product:					**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft			134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month			166,719	94,154	94,154	244,426	218,054	250,408	272,560	287,477	236,590	287,043	257,035	283,974
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			62.22	62.63	72.33	76.01	66.43	46.76	38.70	36.77	39.39	48.32	52.59	59.52
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.30	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			524.67	523.67	532.17	538.67	546.67	551.67	554.67	555.67	552.67	545.67	534.67	534.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			524.67	523.67	532.17	538.67	546.67	551.67	554.67	555.67	552.67	545.67	534.67	534.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		517.54	519.95	526.98	534.00	542.09	547.31	549.66	549.76	545.28	536.99	526.27	521.36
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			517.54	519.95	526.98	534.00	542.09	547.31	549.66	549.76	545.28	536.99	526.27	521.36
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		517.54	519.95	526.98	534.00	542.09	547.31	549.66	549.76	545.28	536.99	526.27	521.36
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.54	519.95	526.98	534.00	542.09	547.31	549.66	549.76	545.28	536.99	526.27	521.36
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R			5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.34	3.50	4.04	4.63	5.40	5.95	6.21	6.22	5.73	4.90	3.98	3.61
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.34	3.50	4.04	4.63	5.40	5.95	6.21	6.22	5.73	4.90	3.98	3.61
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.34	3.50	4.04	4.63	5.40	5.95	6.21	6.22	5.73	4.90	3.98	3.61
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		185.73	187.00	248.86	294.92	339.98	318.03	309.51	301.71	277.20	257.68	206.10	198.69
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		272.97	290.65	395.39	489.30	516.80	411.69	360.44	343.24	330.47	333.57	282.81	285.46
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		9.86	5.57	5.57	14.45	12.89	14.80	16.11	16.99	13.99	16.97	15.19	16.79
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		468.56	483.21	649.82	798.67	869.67	744.53	686.06	661.94	621.66	608.22	504.10	500.94
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.23	0.24	0.32	0.40	0.43	0.37	0.34	0.33	0.31	0.30	0.25	0.25
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.23**	**0.24**	**0.32**	**0.40**	**0.43**	**0.37**	**0.34**	**0.33**	**0.31**	**0.30**	**0.25**	**0.25**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.80**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		517.54	519.95	526.98	534.00	542.09	547.31	549.66	549.76	545.28	536.99	526.27	521.36
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.34	3.50	4.04	4.63	5.40	5.95	6.21	6.22	5.73	4.90	3.98	3.61
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		185.73	187.00	248.86	294.92	339.979	318.03	309.509	301.71	277.196	257.68	206.10	198.69
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		272.97	290.65	395.39	489.30	516.802	411.69	360.438	343.24	330.474	333.57	282.81	285.46
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		72.57	65.54	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.71	0.81	0.96	1.19	1.249	1.11	0.998	0.96	0.942	0.89	0.78	0.75
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.71	0.81	0.96	1.19	1.249	1.11	0.998	0.96	0.942	0.89	0.78	0.75
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.25**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-6											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**
	FIN (Facility Identification Number)					**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**	**68-95-6**
	Product:					**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft			56	56	56	56	56	56	56	56	56	56	56	56
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			28,301	11,461	52,719	44,519	66,526	56,855	62,641	67,185	59,271	38,331	27,926	49,833
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			22.12	20.70	22.12	21.41	22.12	21.41	22.12	22.12	21.41	22.12	21.41	22.12
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			524.67	521.67	534.17	536.67	541.67	546.67	536.67	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			524.67	521.67	534.17	536.67	541.67	546.67	544.75	548.67	548.67	538.67	528.67	526.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		521.12	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			521.12	520.53	530.90	535.06	541.16	546.27	545.75	548.19	546.40	536.80	526.59	522.51
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		525.31	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		516.94	516.09	526.19	530.22	536.38	541.55	540.89	543.30	541.63	532.01	522.11	518.30
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.72	17.75	18.84	19.38	19.13	18.86	19.44	19.59	19.10	19.16	17.93	16.83
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.51	2.48	3.19	3.52	4.06	4.57	4.51	4.77	4.58	3.67	2.88	2.60
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.79	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.26	2.21	2.85	3.14	3.63	4.10	4.04	4.27	4.11	3.28	2.58	2.34
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.09	0.07	0.05	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		42.28	38.91	55.17	59.77	72.86	81.04	82.56	88.26	81.33	64.74	47.49	43.91
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		89.64	82.50	116.97	126.71	154.47	171.81	175.03	187.12	172.43	137.26	100.69	93.10
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		3.99	1.61	7.43	6.27	9.37	8.01	8.82	9.47	8.35	5.40	3.93	7.02
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		135.91	123.03	179.57	192.75	236.69	260.85	266.42	284.84	262.11	207.40	152.12	144.03
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.07	0.06	0.09	0.10	0.12	0.13	0.13	0.14	0.13	0.10	0.08	0.07
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.07**	**0.06**	**0.09**	**0.10**	**0.12**	**0.13**	**0.13**	**0.14**	**0.13**	**0.10**	**0.08**	**0.07**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**1.22**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		525.31	524.97	535.61	539.91	545.94	550.99	550.61	553.09	551.18	541.59	531.07	526.72
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.79	2.76	3.57	3.95	4.53	5.08	5.03	5.32	5.10	4.10	3.20	2.88
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.07	0.08	0.09	0.11	0.10	0.11	0.11	0.08	0.06	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		47.39	43.92	62.69	68.15	82.985	92.22	94.315	101.00	92.710	73.73	53.64	49.24
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		100.47	93.12	132.90	144.49	175.939	195.52	199.959	214.12	196.557	156.31	113.72	104.41
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		80.71	75.50	80.71	78.10	80.708	78.10	80.708	80.71	78.104	80.71	78.10	80.71
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.31	0.31	0.37	0.40	0.456	0.51	0.504	0.53	0.510	0.42	0.34	0.31
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.31	0.31	0.37	0.40	0.456	0.51	0.504	0.53	0.510	0.42	0.34	0.31
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.53**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-27											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	FIN (Facility Identification Number)					**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**	**68-95-27**
	Product:					**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft			40	40	40	40	40	40	40	40	40	40	40	40
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			30,775	14,551	58,297	54,338	61,633	52,338	63,388	65,114	67,882	40,978	42,787	49,062
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			16.47	15.41	16.47	15.94	16.47	15.94	16.47	16.47	15.94	16.47	15.94	16.47
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			527.67	521.67	536.67	536.67	541.67	546.17	548.67	549.67	545.17	538.67	533.67	523.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			527.67	521.67	536.67	536.67	541.67	546.17	548.67	549.67	545.17	538.67	533.67	523.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		522.49	520.26	531.92	534.65	540.83	545.63	547.97	548.49	543.78	536.42	529.32	520.49
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			522.49	520.26	531.92	534.65	540.83	545.63	547.97	548.49	543.78	536.42	529.32	520.49
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		527.00	525.01	536.92	539.76	545.83	550.54	553.03	553.62	548.82	541.52	534.14	525.03
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.99	515.50	526.91	529.55	535.83	540.72	542.90	543.36	538.75	531.32	524.50	515.95
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			18.01	19.02	20.02	20.41	20.00	19.65	20.27	20.52	20.14	20.40	19.28	18.17
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.60	2.46	3.27	3.49	4.03	4.50	4.74	4.80	4.32	3.64	3.07	2.47
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.90	2.77	3.68	3.93	4.52	5.03	5.31	5.38	4.84	4.10	3.45	2.77
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.32	2.18	2.90	3.09	3.59	4.02	4.23	4.27	3.84	3.22	2.73	2.21
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$		8.55	7.52	11.05	11.51	14.07	15.51	17.09	17.33	14.75	12.48	9.96	8.09
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$		69.30	60.98	89.53	93.31	113.99	125.72	138.47	140.46	119.55	101.16	80.76	65.60
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		6.12	2.89	11.59	10.80	12.25	10.40	12.60	12.94	13.49	8.14	8.50	9.75
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		83.96	71.40	112.16	115.63	140.31	151.63	168.16	170.73	147.79	121.79	99.22	83.45
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.04	0.04	0.06	0.06	0.07	0.08	0.08	0.09	0.07	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.04**	**0.04**	**0.06**	**0.06**	**0.07**	**0.08**	**0.08**	**0.09**	**0.07**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.73**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		527.00	525.01	536.92	539.76	545.83	550.54	553.03	553.62	548.82	541.52	534.14	525.03
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.90	2.77	3.68	3.93	4.52	5.03	5.31	5.38	4.84	4.10	3.45	2.77
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.05	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.05
	Rim Seal Loss	L_R	lb/month	$K_R (P^*) D M_V K_C$		9.67	8.57	12.65	13.22	16.116	17.75	19.644	19.96	16.926	14.33	11.36	9.16
	Deck Fitting Loss	L_F	lb/month	$F_F (P^*) M_V K_C$		78.34	69.43	102.53	107.15	130.608	143.82	159.201	161.79	137.175	116.17	92.03	74.26
	Deck Seam Loss	L_D	lb/month	$K_D S_D D^2 (P^*) M_V K_C$		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) $C_S W_L/D)(1+[N_C F_C]/D)$		113.86	106.52	113.86	110.19	113.861	110.19	113.861	113.86	110.188	113.86	110.19	113.86
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.27	0.27	0.31	0.32	0.350	0.38	0.393	0.40	0.367	0.33	0.30	0.27
	Maximum Hourly Emission Rate	L_T	lb/hr	$L_T+L * (100\%-CE)$		0.27	0.27	0.31	0.32	0.350	0.38	0.393	0.40	0.367	0.33	0.30	0.27
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.40**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-402											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**
	FIN (Facility Identification Number)					**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**	**68-95-402**
	Product:					**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**	**Hexane**
Tank Data	Diameter	D	ft			74	74	74	74	74	74	74	74	74	74	74	74
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			44,590	34,172	71,307	52,890	74,714	41,358	60,240	50,281	57,721	44,772	35,282	29,016
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			27.73	25.94	27.73	26.84	27.73	26.84	27.73	27.73	26.84	27.73	26.84	27.73
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			524.67	520.67	532.67	536.67	542.67	544.17	548.67	548.67	545.67	540.67	532.67	522.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			524.67	520.67	532.67	536.67	542.67	544.17	548.67	548.67	545.67	540.67	532.67	522.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		521.18	519.91	529.98	535.11	541.85	544.67	548.34	548.23	544.49	538.16	529.25	520.28
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			521.18	519.91	529.98	535.11	541.85	544.67	548.34	548.23	544.49	538.16	529.25	520.28
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		525.32	524.31	534.66	539.93	546.61	549.37	553.17	553.10	549.24	542.91	533.69	524.44
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.04	515.50	525.31	530.30	537.09	539.98	543.50	543.36	539.75	533.41	524.81	516.11
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.57	17.60	18.70	19.26	19.03	18.77	19.34	19.48	18.97	19.01	17.77	16.67
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	Liquid Density	W_L	lb/gal			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.52	2.44	3.12	3.53	4.13	4.40	4.78	4.77	4.39	3.79	3.07	2.46
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		2.79	2.72	3.49	3.95	4.60	4.90	5.33	5.32	4.88	4.23	3.41	2.73
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.27	2.18	2.79	3.15	3.70	3.95	4.29	4.27	3.93	3.39	2.75	2.22
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		55.96	50.55	71.11	79.08	98.11	102.52	117.09	116.75	102.02	88.75	67.46	54.59
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		112.53	101.66	143.01	159.03	197.30	206.17	235.47	234.79	205.17	178.48	135.67	109.78
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		4.73	3.63	7.57	5.61	7.93	4.39	6.39	5.34	6.12	4.75	3.74	3.08
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		173.22	155.84	221.68	243.73	303.33	313.08	358.95	356.87	313.31	271.99	206.87	167.44
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.09	0.08	0.11	0.12	0.15	0.16	0.18	0.18	0.16	0.14	0.10	0.08
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.09**	**0.08**	**0.11**	**0.12**	**0.15**	**0.16**	**0.18**	**0.18**	**0.16**	**0.14**	**0.10**	**0.08**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**1.54**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		525.32	524.31	534.66	539.93	546.61	549.37	553.17	553.10	549.24	542.91	533.69	524.44
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			2.79	2.72	3.49	3.95	4.60	4.90	5.33	5.32	4.88	4.23	3.41	2.73
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.05
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		62.65	57.01	80.72	90.10	111.679	116.55	133.766	133.50	116.146	100.98	76.10	61.17
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		126.00	114.65	162.34	181.21	224.592	234.40	269.011	268.47	233.576	203.07	153.04	123.01
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		60.79	56.87	60.79	58.83	60.790	58.83	60.790	60.79	58.829	60.79	58.83	60.79
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.34	0.33	0.41	0.46	0.534	0.57	0.623	0.62	0.567	0.49	0.40	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.34	0.33	0.41	0.46	0.534	0.57	0.623	0.62	0.567	0.49	0.40	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.62**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-31											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	FIN (Facility Identification Number)					68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31	68-95-31
	Product:					Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed	Benzene Hydro Fresh Feed
Tank Data	Diameter	D	ft			42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		400	400	400	400	400	400	400	400	400	400	400	400
	Monthly Throughput	Q	bbls/month			81,559	54,886	154,789	130,465	165,375	172,171	182,340	180,624	174,762	134,196	139,788	135,783
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			6.21	5.81	6.21	6.01	6.21	6.01	6.21	6.21	6.01	6.21	6.01	6.21
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			541.67	534.67	554.67	553.67	564.67	566.67	572.67	571.67	569.67	556.67	552.67	548.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			541.67	534.67	554.67	553.67	564.67	566.67	572.67	571.67	569.67	556.67	552.67	548.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		531.64	528.62	543.60	545.61	555.54	558.76	563.31	562.58	559.45	548.00	541.60	536.18
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			531.64	528.62	543.60	545.61	555.54	558.76	563.31	562.58	559.45	548.00	541.60	536.18
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		535.98	533.22	548.47	550.59	560.44	563.57	568.28	567.60	564.36	552.95	546.25	540.56
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		527.29	524.02	538.74	540.63	550.65	553.94	558.35	557.56	554.55	543.05	536.94	531.81
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.38	18.40	19.44	19.90	19.58	19.26	19.87	20.07	19.63	19.80	18.62	17.51
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
	Vapor Molecular Wt.	M_V	lb/lb-mole			86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Slope	Sl	°F/vol %			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89	13.89
	C-C Vapor Pressure Equation Constant B	B	°R			6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54	6,760.54
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		3.25	3.02	4.30	4.50	5.61	6.02	6.64	6.54	6.11	4.75	4.10	3.62
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		3.60	3.37	4.80	5.03	6.24	6.68	7.37	7.27	6.79	5.30	4.56	4.01
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		2.93	2.70	3.84	4.01	5.04	5.42	5.97	5.87	5.49	4.24	3.68	3.26
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.06	0.09	0.09	0.12	0.13	0.15	0.15	0.13	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		42.75	36.85	59.15	60.45	82.12	86.97	102.34	100.20	88.70	66.68	54.20	48.36
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		33.50	28.87	46.35	47.37	64.36	68.15	80.20	78.52	69.51	52.25	42.47	37.89
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		15.48	10.42	29.38	24.76	31.39	32.68	34.61	34.28	33.17	25.47	26.53	25.77
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		91.73	76.14	134.87	132.59	177.87	187.80	217.15	213.01	191.39	144.41	123.21	112.03
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.05	0.04	0.07	0.07	0.09	0.09	0.11	0.11	0.10	0.07	0.06	0.06
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.05**	**0.04**	**0.07**	**0.07**	**0.09**	**0.09**	**0.11**	**0.11**	**0.10**	**0.07**	**0.06**	**0.06**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**0.90**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		535.98	533.22	548.47	550.59	560.44	563.57	568.28	567.60	564.36	552.95	546.25	540.56
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			3.60	3.37	4.80	5.03	6.24	6.68	7.37	7.27	6.79	5.30	4.56	4.01
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.10	0.10	0.14	0.15	0.17	0.17	0.15	0.11	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		48.09	41.74	67.54	69.28	94.249	99.77	118.332	115.96	102.080	76.41	61.52	54.45
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		37.69	32.71	52.93	54.29	73.857	78.19	92.729	90.87	79.994	59.88	48.21	42.67
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		56.49	52.84	56.49	54.67	56.487	54.67	56.487	56.49	54.665	56.49	54.67	56.49
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.19	0.18	0.24	0.25	0.302	0.32	0.360	0.35	0.329	0.26	0.23	0.21
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.19	0.18	0.24	0.25	0.302	0.32	0.360	0.35	0.329	0.26	0.23	0.21
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.36**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-205											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	FIN (Facility Identification Number)					**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**	**68-95-205**
	Product:					**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**	**Heavy Aromatics**
Tank Data	Diameter	D	ft			133	133	133	133	133	133	133	133	133	133	133	133
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month			439,078	277,838	602,711	529,718	543,804	393,830	569,398	598,979	613,055	599,716	627,472	376,254
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			11.65	11.18	12.08	11.93	11.83	10.61	10.41	10.29	10.19	10.97	10.91	11.52
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			529.67	524.67	536.87	537.67	541.67	546.67	549.67	554.67	548.17	545.17	540.67	521.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.96	531.02	539.03	544.30	546.37	546.15	541.18	532.50	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			529.67	524.67	536.87	537.67	541.67	546.67	549.67	554.67	548.17	545.17	540.67	521.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		519.04	520.25	528.39	533.70	540.59	545.81	548.16	549.46	543.93	536.84	528.07	517.46
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			519.04	520.25	528.39	533.70	540.59	545.81	548.16	549.46	543.93	536.84	528.07	517.46
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		522.96	524.43	532.86	538.33	545.19	550.37	552.85	554.16	548.49	541.38	532.28	521.40
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		515.12	516.07	523.92	529.06	535.98	541.25	543.47	544.75	539.37	532.30	523.87	513.53
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			15.68	16.72	17.89	18.54	18.42	18.23	18.76	18.82	18.25	18.15	16.83	15.74
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Slope	Sl	°F/vol %			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	C-C Vapor Pressure Equation Constant A	A	dimensionless			13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88	13.88
	C-C Vapor Pressure Equation Constant B	B	°R			7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01	7,366.01
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	EXP(A-B/T_{LA})		0.74	0.76	0.94	1.09	1.29	1.47	1.56	1.61	1.41	1.18	0.94	0.70
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	EXP(A-B/T_{LX})		0.82	0.85	1.06	1.22	1.45	1.65	1.75	1.81	1.58	1.32	1.05	0.78
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	EXP(A-B/T_{LN})		0.66	0.68	0.84	0.96	1.15	1.32	1.39	1.44	1.25	1.05	0.84	0.63
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		43.14	44.00	60.09	69.82	80.00	75.84	74.17	74.60	66.04	61.87	50.15	40.38
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		11.99	11.91	16.11	18.36	21.88	22.51	23.47	23.98	20.59	18.36	14.43	11.35
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		26.15	16.55	35.90	31.55	32.39	23.46	33.91	35.67	36.51	35.72	37.37	22.41
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		81.29	72.45	112.09	119.73	134.27	121.81	131.56	134.26	123.14	115.96	101.95	74.14
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.04	0.04	0.06	0.06	0.07	0.06	0.07	0.07	0.06	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.04**	**0.04**	**0.06**	**0.06**	**0.07**	**0.06**	**0.07**	**0.07**	**0.06**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.66**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		522.96	524.43	532.86	538.33	545.19	550.37	552.85	554.16	548.49	541.38	532.28	521.40
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			0.82	0.85	1.06	1.22	1.45	1.65	1.75	1.81	1.58	1.32	1.05	0.78
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		48.13	49.41	67.83	79.02	90.283	85.36	83.718	84.21	74.379	69.78	56.22	45.09
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		13.38	13.38	18.18	20.78	24.693	25.34	26.494	27.07	23.183	20.71	16.17	12.67
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		189.90	177.65	189.90	183.78	189.905	183.78	189.905	189.90	183.779	189.90	183.78	189.90
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.34	0.35	0.37	0.39	0.410	0.41	0.403	0.40	0.391	0.38	0.36	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.34	0.35	0.37	0.39	0.410	0.41	0.403	0.40	0.391	0.38	0.36	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.41**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-409											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	FIN (Facility Identification Number)					**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**	**68-95-409**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			0	0	0	0	2,746	0	1,475	0	0	0	0	1,103
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			19.14	17.91	19.14	18.52	19.14	18.52	19.14	19.14	18.52	19.14	18.52	19.14
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			526.67	524.17	532.67	534.67	539.67	544.67	548.67	547.97	545.67	538.17	531.67	521.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			526.67	524.17	532.67	534.67	539.67	544.67	548.67	547.97	545.67	538.17	531.67	521.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		522.13	521.96	529.67	533.58	539.72	544.83	548.12	547.58	544.26	536.28	528.30	519.41
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			522.13	521.96	529.67	533.58	539.72	544.83	548.12	547.58	544.26	536.28	528.30	519.41
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		526.49	526.57	534.54	538.56	544.62	549.65	553.09	552.60	549.17	541.24	532.96	523.79
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.78	517.36	524.81	528.60	534.82	540.01	543.15	542.56	539.35	531.33	523.64	515.02
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		2.80	2.79	3.27	3.54	4.00	4.41	4.70	4.65	4.36	3.74	3.18	2.65
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.07	3.07	3.61	3.91	4.39	4.83	5.15	5.11	4.79	4.12	3.50	2.90
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.56	2.54	2.96	3.20	3.63	4.02	4.27	4.22	3.97	3.39	2.89	2.41
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		26.50	24.70	31.53	33.38	39.69	43.17	48.10	47.51	42.61	36.69	29.57	24.88
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		81.27	75.73	96.70	102.35	121.70	132.38	147.51	145.69	130.67	112.52	90.67	76.29
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		-	-	-	-	0.67	-	0.36	-	-	-	-	0.27
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		107.77	100.42	128.23	135.73	162.06	175.55	195.98	193.20	173.28	149.21	120.24	101.44
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.05**	**0.05**	**0.06**	**0.07**	**0.08**	**0.09**	**0.10**	**0.10**	**0.09**	**0.07**	**0.06**	**0.05**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**0.87**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		526.49	526.57	534.54	538.56	544.62	549.65	553.09	552.60	549.17	541.24	532.96	523.79
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.07	3.07	3.61	3.91	4.39	4.83	5.15	5.11	4.79	4.12	3.50	2.90
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		29.30	27.47	35.26	37.41	44.392	48.21	53.927	53.32	47.689	41.09	32.91	27.54
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		89.86	84.23	108.11	114.71	136.129	147.84	165.366	163.50	146.238	126.01	100.91	84.45
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		124.64	116.60	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.33	0.33	0.36	0.38	0.410	0.44	0.462	0.46	0.437	0.39	0.35	0.32
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.33	0.33	0.36	0.38	0.410	0.44	0.462	0.46	0.437	0.39	0.35	0.32
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.46**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-410											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	FIN (Facility Identification Number)					**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**	**68-95-410**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			73	73	73	73	73	73	73	73	73	73	73	73
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			294,299	225,413	337,168	318,200	225,869	312,516	330,247	353,307	353,506	328,529	286,297	253,797
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			35.45	33.16	35.45	34.30	35.45	34.30	35.45	35.45	34.30	35.45	34.30	35.45
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			535.67	532.07	538.67	538.67	542.67	546.67	549.67	549.67	545.67	541.67	537.07	534.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			535.67	532.07	538.67	538.67	542.67	546.67	549.67	549.67	545.67	541.67	537.07	534.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		528.42	527.40	533.94	536.44	541.87	546.32	549.01	548.90	544.51	538.83	532.16	527.84
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			528.42	527.40	533.94	536.44	541.87	546.32	549.01	548.90	544.51	538.83	532.16	527.84
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		532.55	531.78	538.60	541.24	546.62	551.01	553.83	553.76	549.24	543.57	536.59	531.99
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		524.29	523.01	529.28	531.64	537.12	541.64	544.18	544.04	539.78	534.09	527.73	523.68
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.52	17.55	18.66	19.21	18.99	18.74	19.31	19.44	18.93	18.96	17.71	16.62
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	SI	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.19	3.13	3.57	3.75	4.17	4.54	4.78	4.77	4.38	3.93	3.44	3.15
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.47	3.42	3.91	4.12	4.56	4.96	5.23	5.22	4.80	4.31	3.76	3.43
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		2.93	2.86	3.25	3.41	3.80	4.15	4.36	4.35	4.00	3.58	3.15	2.90
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.10	0.09	0.08	0.07	0.06
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		66.76	61.00	75.78	77.65	90.84	97.35	106.98	106.72	93.39	84.76	70.40	65.87
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		173.98	158.96	197.47	202.36	236.72	253.68	278.77	278.09	243.36	220.87	183.45	171.66
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		32.42	24.83	37.14	35.05	24.88	34.42	36.37	38.91	38.94	36.19	31.53	27.95
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		273.16	244.79	310.39	315.06	352.44	385.45	422.12	423.72	375.69	341.81	285.39	265.49
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.14	0.12	0.16	0.16	0.18	0.19	0.21	0.21	0.19	0.17	0.14	0.13
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.14**	**0.12**	**0.16**	**0.16**	**0.18**	**0.19**	**0.21**	**0.21**	**0.19**	**0.17**	**0.14**	**0.13**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**2.00**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		532.55	531.78	538.60	541.24	546.62	551.01	553.83	553.76	549.24	543.57	536.59	531.99
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.47	3.42	3.91	4.12	4.56	4.96	5.23	5.22	4.80	4.31	3.76	3.43
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.08	0.08	0.09	0.10	0.11	0.11	0.10	0.09	0.07	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		73.40	67.47	84.31	86.67	101.267	108.40	119.544	119.34	104.087	94.46	77.91	72.47
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		191.28	175.82	219.71	225.85	263.888	282.47	311.513	310.99	271.235	246.15	203.03	188.84
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		56.19	52.57	56.19	54.38	56.193	54.38	56.193	56.19	54.380	56.19	54.38	56.19
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.43	0.43	0.48	0.51	0.566	0.62	0.655	0.65	0.597	0.53	0.47	0.43
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.43	0.43	0.48	0.51	0.566	0.62	0.655	0.65	0.597	0.53	0.47	0.43
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.65**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-412											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
				Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	FIN (Facility Identification Number)				**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**	**68-95-412**
	Product:				**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft		27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month		0	0	0	0	0	0	0	0	0	0	0	0
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		18.85	17.64	18.85	18.24	18.85	18.24	18.85	18.85	18.24	18.85	18.24	18.85
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		523.67	522.67	534.67	536.77	541.67	546.67	548.67	550.67	544.67	538.67	533.67	522.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		523.67	522.67	534.67	536.77	541.67	546.67	548.67	550.67	544.67	538.67	533.67	522.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	520.29	521.05	531.00	534.95	541.02	546.13	548.16	549.33	543.67	536.64	529.62	520.08
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		520.29	521.05	531.00	534.95	541.02	546.13	548.16	549.33	543.67	536.64	529.62	520.08
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	524.60	525.62	535.83	539.91	545.89	550.93	553.11	554.32	548.55	541.56	534.25	524.43
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	515.97	516.48	526.17	530.00	536.15	541.33	543.21	544.34	538.78	531.72	525.00	515.74
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.26	18.28	19.33	19.81	19.49	19.19	19.79	19.98	19.53	19.68	18.49	17.39
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	SI	°F/vol %		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless		11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R		5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	2.70	2.74	3.36	3.64	4.10	4.52	4.70	4.80	4.31	3.76	3.27	2.69
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	2.95	3.01	3.70	4.01	4.50	4.95	5.16	5.27	4.73	4.14	3.59	2.94
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	2.46	2.49	3.05	3.30	3.73	4.12	4.28	4.37	3.92	3.41	2.98	2.45
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.05	0.05	0.07	0.07	0.08	0.09	0.10	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	5.68	5.41	7.28	7.71	9.15	9.96	10.78	11.07	9.41	8.28	6.82	5.66
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	76.68	73.01	98.18	104.02	123.48	134.32	145.40	149.36	126.95	111.72	92.06	76.31
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	-	-	-	-	-	-	-	-	-	-	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	82.36	78.43	105.45	111.73	132.63	144.28	156.18	160.43	136.36	120.01	98.88	81.97
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.07	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.04**	**0.05**	**0.06**	**0.07**	**0.07**	**0.08**	**0.08**	**0.08**	**0.07**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.70**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	524.60	525.62	535.83	539.91	545.89	550.93	553.11	554.32	548.55	541.56	534.25	524.43
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		2.95	3.01	3.70	4.01	4.50	4.95	5.16	5.27	4.73	4.14	3.59	2.94
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	6.28	6.02	8.13	8.64	10.233	11.12	12.077	12.42	10.525	9.27	7.59	6.26
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	84.74	81.15	109.67	116.49	138.039	149.95	162.909	167.56	141.969	125.03	102.35	84.40
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	152.36	142.53	152.36	147.44	152.359	147.44	152.359	152.36	147.444	152.36	147.44	152.36
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)	0.33	0.33	0.36	0.38	0.404	0.43	0.440	0.45	0.417	0.39	0.36	0.33
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.33	0.33	0.36	0.38	0.404	0.43	0.440	0.45	0.417	0.39	0.36	0.33
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.45**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-413											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**
	FIN (Facility Identification Number)					**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**	**68-95-413**
	Product:					**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**	**Petroleum Fractions**
Tank Data	Diameter	D	ft			33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		686	686	686	686	686	686	686	686	686	686	686	686
	Monthly Throughput	Q	bbls/month			0	0	0	0	2,769	0	1,432	684	0	0	0	447
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			24.94	23.33	24.94	24.14	24.94	24.14	24.94	24.94	24.14	24.94	24.14	24.94
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			526.67	525.67	535.67	536.67	540.67	544.67	547.67	548.67	543.67	537.67	532.67	523.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			526.67	525.67	535.67	536.67	540.67	544.67	547.67	548.67	543.67	537.67	532.67	523.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		522.13	522.91	531.57	534.84	540.35	544.83	547.49	548.02	543.00	535.97	528.93	520.36
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			522.13	522.91	531.57	534.84	540.35	544.83	547.49	548.02	543.00	535.97	528.93	520.36
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		526.49	527.52	536.44	539.83	545.25	549.65	552.46	553.04	547.91	540.92	533.59	524.74
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.78	518.31	526.70	529.86	535.45	540.01	542.52	543.00	538.08	531.01	524.27	515.97
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.40	18.42	19.47	19.92	19.59	19.28	19.88	20.08	19.65	19.82	18.64	17.54
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
	C-C Vapor Pressure Equation Constant B	B	°R			5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64	5,678.64
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		2.80	2.85	3.40	3.63	4.05	4.41	4.64	4.69	4.26	3.71	3.23	2.70
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		3.07	3.13	3.75	4.01	4.45	4.83	5.09	5.15	4.68	4.09	3.54	2.96
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		2.56	2.59	3.08	3.29	3.68	4.02	4.22	4.26	3.87	3.36	2.93	2.46
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.05	0.05	0.07	0.07	0.08	0.09	0.09	0.10	0.09	0.07	0.06	0.05
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		26.50	25.24	32.94	34.36	40.27	43.17	47.41	47.99	41.40	36.43	30.00	25.43
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		105.90	100.87	131.61	137.29	160.90	172.51	189.46	191.78	165.42	145.56	119.89	101.63
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		-	-	-	-	0.68	-	0.35	0.17	-	-	-	0.11
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		132.40	126.11	164.55	171.65	201.84	215.68	237.22	239.94	206.82	181.99	149.89	127.17
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.07	0.06	0.08	0.09	0.10	0.11	0.12	0.12	0.10	0.09	0.07	0.06
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.07**	**0.06**	**0.08**	**0.09**	**0.10**	**0.11**	**0.12**	**0.12**	**0.10**	**0.09**	**0.07**	**0.06**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**1.08**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		526.49	527.52	536.44	539.83	545.25	549.65	552.46	553.04	547.91	540.92	533.59	524.74
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			3.07	3.13	3.75	4.01	4.45	4.83	5.09	5.15	4.68	4.09	3.54	2.96
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.10	0.08	0.07	0.06
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		29.30	28.07	36.82	38.50	45.039	48.21	53.147	53.87	46.326	40.80	33.39	28.15
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		117.10	112.18	147.13	153.86	179.974	192.66	212.372	215.24	185.115	163.03	133.42	112.48
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		124.64	116.60	124.64	120.62	124.645	120.62	124.645	124.64	120.624	124.64	120.62	124.64
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.36	0.37	0.41	0.43	0.470	0.50	0.524	0.53	0.489	0.44	0.40	0.36
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.36	0.37	0.41	0.43	0.470	0.50	0.524	0.53	0.489	0.44	0.40	0.36
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.53**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-411											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
				Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	FIN (Facility Identification Number)				**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**	**68-95-411**
	Product:				**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**	**Benzene/Toluene Extract**
Tank Data	Diameter	D	ft		33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Tank Type		-		IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67	32.67
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	358	358	358	358	358	358	358	358	358	358	358	358
	Monthly Throughput	Q	bbls/month		110,572	81,345	114,130	129,115	107,819	128,747	120,389	124,459	114,757	117,082	88,432	86,244
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft		1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month		24.94	23.33	24.94	24.14	24.94	24.14	24.94	24.94	24.14	24.94	24.14	24.94
	Roof Type (EFR or DEFR only)		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		513.67	531.67	529.67	531.67	532.67	534.67	539.67	544.67	537.67	532.67	528.67	514.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		513.67	531.67	529.67	531.67	537.50	542.70	544.75	544.67	539.87	532.67	528.67	514.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_S I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	513.91	526.69	527.77	531.68	538.34	543.58	545.64	545.49	540.59	532.80	526.40	514.98
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		513.91	526.69	527.77	531.68	538.34	543.58	545.64	545.49	540.59	532.80	526.40	514.98
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	518.27	531.30	532.64	536.67	543.25	548.40	550.62	550.51	545.51	537.77	531.07	519.38
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	509.55	522.08	522.89	526.69	533.44	538.75	540.67	540.46	535.67	527.84	521.73	510.59
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		17.44	18.46	19.50	19.95	19.61	19.30	19.90	20.11	19.68	19.85	18.68	17.57
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Vapor Molecular Wt.	M_V	lb/lb-mole		85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	Liquid Density	W_L	lb/gal		7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi		No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %		No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless		14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R		7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	0.99	1.41	1.45	1.61	1.92	2.19	2.31	2.30	2.03	1.66	1.40	1.02
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	1.12	1.60	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.59	1.16
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	0.88	1.25	1.27	1.41	1.69	1.94	2.03	2.02	1.79	1.46	1.23	0.90
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	9.33	12.59	13.88	14.99	18.62	20.80	22.74	22.65	19.17	15.98	12.92	9.63
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	37.30	50.33	55.46	59.88	74.42	83.13	90.88	90.50	76.61	63.85	51.63	38.48
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	35.10	25.83	36.23	40.99	34.23	40.88	38.22	39.51	36.43	37.17	28.08	27.38
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	81.74	88.75	105.57	115.86	127.28	144.81	151.84	152.66	132.21	117.00	92.63	75.49
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.07	0.06	0.05	0.04
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.04**	**0.04**	**0.05**	**0.06**	**0.06**	**0.07**	**0.08**	**0.08**	**0.07**	**0.06**	**0.05**	**0.04**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**0.69**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	518.27	531.30	532.64	536.67	543.25	548.40	550.62	550.51	545.51	537.77	531.07	519.38
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		1.12	1.60	1.65	1.84	2.17	2.47	2.61	2.60	2.30	1.89	1.59	1.16
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	10.59	14.34	15.91	17.21	21.304	23.72	26.029	25.96	21.929	18.33	14.73	10.93
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	42.32	57.28	63.56	68.77	85.131	94.79	104.011	103.72	87.627	73.25	58.87	43.69
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	84.56	79.11	84.56	81.83	84.562	81.83	84.562	84.56	81.834	84.56	81.83	84.56
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)	0.18	0.22	0.22	0.23	0.257	0.28	0.288	0.29	0.266	0.24	0.22	0.19
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.18	0.22	0.22	0.23	0.257	0.28	0.288	0.29	0.266	0.24	0.22	0.19
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**0.29**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-216											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	FIN (Facility Identification Number)					**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**	**68-95-216**
	Product:					**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**	**Toluene**
Tank Data	Diameter	D	ft			100	100	100	100	100	100	100	100	100	100	100	100
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286	4,286
	Monthly Throughput	Q	bbls/month			43,773	17,397	22,062	23,611	27,323	46,957	41,293	48,361	51,428	44,644	42,619	41,967
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			60.34	63.08	70.40	74.13	64.53	45.01	36.94	35.02	37.68	46.51	50.81	57.65
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			522.67	519.17	528.67	532.67	537.67	541.67	545.67	545.67	542.67	534.67	529.87	518.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.89	517.63	523.81	530.83	538.82	544.07	546.14	545.94	541.00	532.35	522.01	515.11
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			522.67	519.17	528.67	532.67	538.82	544.07	546.14	545.94	542.67	534.67	529.87	518.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		516.94	518.60	525.93	532.20	539.73	545.03	547.11	546.84	542.28	533.69	524.83	516.56
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			516.94	518.60	525.93	532.20	539.73	545.03	547.11	546.84	542.28	533.69	524.83	516.56
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		520.96	522.87	530.49	536.91	544.40	549.65	551.86	551.61	546.92	538.32	529.14	520.60
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		512.93	514.33	521.38	527.49	535.06	540.42	542.36	542.06	537.64	529.06	520.53	512.53
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			16.06	17.09	18.23	18.84	18.68	18.46	19.00	19.10	18.55	18.51	17.22	16.13
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	Liquid Density	W_L	lb/gal			7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92	14.92
	C-C Vapor Pressure Equation Constant B	B	°R			8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56	8,332.56
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	EXP(A-B/T_{LA})		0.30	0.32	0.40	0.48	0.60	0.70	0.74	0.73	0.64	0.50	0.39	0.30
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	EXP(A-B/T_{LX})		0.34	0.36	0.46	0.55	0.68	0.79	0.84	0.83	0.73	0.57	0.44	0.34
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	EXP(A-B/T_{LN})		0.27	0.28	0.35	0.42	0.52	0.61	0.64	0.64	0.56	0.44	0.34	0.26
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		15.17	15.75	21.56	26.22	31.25	30.12	29.40	28.38	25.44	22.34	17.55	14.67
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		29.05	31.99	44.80	57.00	62.00	50.42	43.92	41.32	38.99	37.40	31.26	27.43
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		4.48	1.78	2.26	2.42	2.80	4.81	4.23	4.95	5.27	4.57	4.36	4.30
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		48.70	49.53	68.62	85.64	96.05	85.35	77.55	74.65	69.70	64.31	53.18	46.39
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.02	0.02	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.02**	**0.02**	**0.03**	**0.04**	**0.05**	**0.04**	**0.04**	**0.04**	**0.03**	**0.03**	**0.03**	**0.02**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of L_T**		**0.41**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		520.96	522.87	530.49	536.91	544.40	549.65	551.86	551.61	546.92	538.32	529.14	520.60
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			0.34	0.36	0.46	0.55	0.68	0.79	0.84	0.83	0.73	0.57	0.44	0.34
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		17.20	17.99	24.75	30.16	35.779	34.36	33.646	32.50	29.078	25.61	20.01	16.64
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		32.94	36.54	51.44	65.56	70.991	57.52	50.252	47.32	44.553	42.88	35.64	31.12
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		326.54	305.47	326.54	316.01	326.541	316.01	326.541	326.54	316.007	326.54	316.01	326.54
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.51	0.52	0.54	0.57	0.582	0.57	0.552	0.55	0.541	0.53	0.52	0.50
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.51	0.52	0.54	0.57	0.582	0.57	0.552	0.55	0.541	0.53	0.52	0.50
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum L_T**		**0.58**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

				Tank ID	68-95-207											
				Month	January	February	March	April	May	June	July	August	September	October	November	December
				Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**												
	EPN (Emission Point Number)				**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**
	FIN (Facility Identification Number)				**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**	**68-95-207**
	Product:				**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**	**Light Straight Run Gasoline**
Tank Data	Diameter	D	ft		134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-		EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-		No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft		40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-		Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-		White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-		New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125
	Monthly Throughput	Q	bbls/month		71,270	51,077	144,387	121,600	113,740	90,912	129,680	146,748	123,522	102,275	218,096	222,148
	Shell Clingage	C_S	bbl/ft^2		0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-		-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month		62.05	64.69	72.13	75.81	66.25	46.64	38.59	36.67	39.28	48.19	52.45	59.35
	Roof Type (EFR or DEFR only)		-		Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-		Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft		-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$	0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days		31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-		Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks	7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d		832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia		14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F		62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F		43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}	18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$	512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R		523.67	521.67	533.67	538.67	543.67	544.67	549.67	549.67	545.67	536.67	533.67	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$	513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$	-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R		523.67	521.67	533.67	538.67	543.67	544.67	549.67	549.67	545.67	536.67	533.67	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$	-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$	517.24	519.35	527.43	534.00	541.19	545.21	548.16	547.96	543.18	534.29	525.97	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R		517.24	519.35	527.43	534.00	541.19	545.21	548.16	547.96	543.18	534.29	525.97	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$	521.16	523.53	531.90	538.63	545.79	549.77	552.85	552.66	547.74	538.83	530.18	522.60
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$	513.32	515.17	522.96	529.37	536.58	540.65	543.48	543.25	538.62	529.76	521.77	514.73
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$	15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$	-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}	-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R		15.67	16.71	17.88	18.53	18.42	18.22	18.75	18.82	18.24	18.14	16.82	15.73
Product Data	Crude Oil Service?	-	Y/N		N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole		68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi		9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	Slope	Sl	°F/vol %		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	C-C Vapor Pressure Equation Constant A	A	dimensionless		13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30
	C-C Vapor Pressure Equation Constant B	B	°R		6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76	6,168.76
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$	3.96	4.15	4.98	5.75	6.71	7.30	7.76	7.72	7.00	5.79	4.82	4.09
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$	4.33	4.57	5.50	6.36	7.39	8.01	8.53	8.50	7.69	6.38	5.29	4.47
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$	3.61	3.77	4.51	5.20	6.08	6.63	7.04	7.01	6.35	5.25	4.39	3.73
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.08	0.08	0.10	0.12	0.15	0.17	0.19	0.19	0.16	0.13	0.10	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	225.57	235.39	319.73	385.49	450.16	418.04	419.72	405.71	360.44	316.65	258.70	229.35
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	331.52	365.85	507.98	639.56	684.28	541.16	488.79	461.57	429.72	409.90	354.98	329.52
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$	4.21	3.02	8.54	7.19	6.72	5.37	7.67	8.67	7.30	6.05	12.89	13.13
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$	561.31	604.26	836.25	1,032.25	1,141.16	964.57	916.18	875.95	797.46	732.59	626.57	572.00
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$	0.28	0.30	0.42	0.52	0.57	0.48	0.46	0.44	0.40	0.37	0.31	0.29
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$	**0.28**	**0.30**	**0.42**	**0.52**	**0.57**	**0.48**	**0.46**	**0.44**	**0.40**	**0.37**	**0.31**	**0.29**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**	**4.83**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV	521.16	523.53	531.90	538.63	545.79	549.77	552.85	552.66	547.74	538.83	530.18	522.60
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$		4.33	4.57	5.50	6.36	7.39	8.01	8.53	8.50	7.69	6.38	5.29	4.47
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4	1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$	0.09	0.09	0.12	0.14	0.17	0.20	0.21	0.21	0.18	0.14	0.11	0.09
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C	250.76	263.57	361.44	438.89	514.425	478.79	484.346	468.29	412.061	359.56	290.21	255.10
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C	368.54	409.65	574.24	728.15	781.977	619.80	564.044	532.75	491.261	465.44	398.22	366.50
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)	93.46	87.43	93.46	90.44	93.458	90.44	93.458	93.46	90.444	93.46	90.44	93.46
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)	0.96	1.09	1.38	1.75	1.868	1.65	1.535	1.47	1.380	1.23	1.08	0.96
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)	0.96	1.09	1.38	1.75	1.868	1.65	1.535	1.47	1.380	1.23	1.08	0.96
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**	**1.87**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-85											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**
	FIN (Facility Identification Number)					**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**	**68-95-85**
	Product:					**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		770	770	770	770	770	770	770	770	770	770	770	770
	Monthly Throughput	Q	bbls/month			962	1,870	9,430	2,542	3,045	0	9,216	61,646	55,830	42,582	37,219	38,012
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.94	9.30	9.94	9.62	9.94	9.62	9.94	9.94	9.62	9.94	9.62	9.94
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			520.67	519.17	531.67	534.67	534.67	536.67	537.67	563.67	558.67	553.67	542.67	536.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			520.67	519.17	531.67	534.67	537.50	542.70	544.75	563.67	558.67	553.67	542.67	536.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_S I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		518.25	518.75	528.92	533.48	538.29	543.53	545.59	557.27	552.25	545.83	535.02	528.65
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			518.25	518.75	528.92	533.48	538.29	543.53	545.59	557.27	552.25	545.83	535.02	528.65
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		522.69	523.45	533.87	538.54	543.25	548.40	550.62	562.35	557.24	550.87	539.78	533.13
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		513.80	514.06	523.97	528.43	533.33	538.65	540.56	552.18	547.26	540.79	530.26	524.17
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		1.12	1.14	1.50	1.69	1.91	2.19	2.30	3.06	2.71	2.32	1.76	1.49
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		1.27	1.29	1.71	1.93	2.17	2.47	2.61	3.46	3.06	2.62	1.99	1.67
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		0.99	1.00	1.31	1.48	1.68	1.93	2.03	2.71	2.40	2.04	1.55	1.32
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.06	0.05	0.04	0.03	0.03
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		7.25	6.88	9.81	10.79	12.73	14.22	15.55	21.32	18.02	15.65	11.26	9.74
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		15.47	14.68	20.95	23.03	27.18	30.36	33.19	45.51	38.47	33.40	24.03	20.79
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		0.42	0.81	4.08	1.10	1.32	-	3.99	26.66	24.14	18.41	16.09	16.44
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		23.13	22.37	34.84	34.92	41.23	44.58	52.72	93.49	80.64	67.47	51.38	46.97
	Monthly Emission Rate	L_T	**ton/month**	L_T**/2000**		0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.05	0.04	0.03	0.03	0.02
	Controlled Monthly Emission Rate	L_T	**ton/month**	L_T**/2000 * (100%-CE)**		**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.05**	**0.04**	**0.03**	**0.03**	**0.02**
	Total Emission Loss Annually	L_T	**ton/year**	**sum of L_T**		**0.30**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	T_{LX}	°R	TLA+0.25*ΔTV		522.69	523.45	533.87	538.54	543.25	548.40	550.62	562.35	557.24	550.87	539.78	533.13
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			1.27	1.29	1.71	1.93	2.17	2.47	2.61	3.46	3.06	2.62	1.99	1.67
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.07	0.06	0.05	0.04	0.03
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		8.23	7.87	11.27	12.41	14.588	16.24	17.821	24.45	20.618	17.94	12.84	11.04
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		17.56	16.79	24.05	26.48	31.140	34.67	38.041	52.19	44.011	38.30	27.40	23.56
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		247.71	231.73	247.71	239.72	247.707	239.72	247.707	247.71	239.716	247.71	239.72	247.71
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.37	0.37	0.38	0.39	0.394	0.40	0.408	0.44	0.423	0.41	0.39	0.38
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.37	0.37	0.38	0.39	0.394	0.40	0.408	0.44	0.423	0.41	0.39	0.38
	Maximum Hourly Emission Rate for Year	L_T	**lb/hr**	**Maximum L_T**		**0.44**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-86											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**
	FIN (Facility Identification Number)					**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**	**68-95-86**
	Product:					**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**	**Benzene**
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		535	535	535	535	535	535	535	535	535	535	535	535
	Monthly Throughput	Q	bbls/month			49,889	35,098	60,930	59,726	50,713	63,539	60,623	0	3,712	1,702	0	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.94	9.30	9.94	9.62	9.94	9.62	9.94	9.94	9.62	9.94	9.62	9.94
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			538.67	536.67	546.67	544.67	548.67	552.67	553.67	546.67	554.67	543.67	545.67	543.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			538.67	536.67	546.67	544.67	548.67	552.67	553.67	546.67	554.67	543.67	545.67	543.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		529.45	529.64	538.25	539.71	545.25	549.73	551.14	546.69	549.76	539.60	536.89	533.01
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			529.45	529.64	538.25	539.71	545.25	549.73	551.14	546.69	549.76	539.60	536.89	533.01
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		533.89	534.34	543.20	544.76	550.20	554.61	556.17	551.77	554.75	544.65	541.64	537.49
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		525.01	524.95	533.30	534.65	540.29	544.86	546.11	541.60	544.77	534.56	532.13	528.53
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	Sl	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		1.52	1.53	1.91	1.98	2.28	2.55	2.64	2.37	2.55	1.98	1.85	1.67
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		1.71	1.73	2.17	2.26	2.58	2.87	2.98	2.68	2.88	2.25	2.09	1.88
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		1.35	1.35	1.68	1.74	2.01	2.26	2.33	2.08	2.26	1.74	1.63	1.48
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.04	0.05	0.04	0.03	0.03
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		9.96	9.37	12.72	12.81	15.40	16.84	18.07	16.02	16.85	13.20	11.85	11.00
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		21.26	20.00	27.15	27.35	32.88	35.94	38.58	34.19	35.97	28.18	25.30	23.48
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		21.57	15.18	26.35	25.82	21.93	27.47	26.21	-	1.60	0.74	-	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		52.79	44.54	66.21	65.98	70.21	80.25	82.87	50.21	54.42	42.12	37.16	34.49
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.03**	**0.02**	**0.03**	**0.03**	**0.04**	**0.04**	**0.04**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**0.34**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		533.89	534.34	543.20	544.76	550.20	554.61	556.17	551.77	554.75	544.65	541.64	537.49
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			1.71	1.73	2.17	2.26	2.58	2.87	2.98	2.68	2.88	2.25	2.09	1.88
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.04	0.04	0.03
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		11.27	10.68	14.57	14.71	17.622	19.21	20.702	18.39	19.280	15.15	13.51	12.45
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		24.07	22.80	31.10	31.40	37.615	41.00	44.189	39.24	41.155	32.35	28.84	26.59
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		172.11	161.00	172.11	166.56	172.108	166.56	172.108	172.11	166.556	172.11	166.56	172.11
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.28	0.28	0.29	0.30	0.306	0.31	0.319	0.31	0.315	0.30	0.29	0.28
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.28	0.28	0.29	0.30	0.306	0.31	0.319	0.31	0.315	0.30	0.29	0.28
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.32**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-87											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		Units	Notes													
	EPN (Emission Point Number)					68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87
	FIN (Facility Identification Number)					68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87	68-95-87
	Product:					Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane	Benzene/Cyclohexane
Tank Data	Diameter	D	ft			25	25	25	25	25	25	25	25	25	25	25	25
	Tank Type		-			IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR	IFR
	Insulated?		-			No	No	No	No	No	No	No	No	No	No	No	No
	Tank Shell Nominal Height	H_S	ft			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		535	535	535	535	535	535	535	535	535	535	535	535
	Monthly Throughput	Q	bbls/month			698	0	0	0	0	429	0	1,864	0	206	272	106
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			1	1	1	1	1	1	1	1	1	1	1	1
	Column Diameter	F_C	ft			1	1	1	1	1	1	1	1	1	1	1	1
	Deck Fitting Factor	F_F	lb-mole/month			9.94	9.30	9.94	9.62	9.94	9.62	9.94	9.94	9.62	9.94	9.62	9.94
	Roof Type (EFR or DEFR only)		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tank Rim Seal Factor, n	n	-			4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.19
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			523.67	520.67	531.67	533.67	537.67	542.67	544.67	546.67	540.67	535.67	530.67	519.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		513.29	516.89	522.85	529.65	537.50	542.70	544.75	544.64	539.87	531.43	521.34	514.56
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			523.67	520.67	531.67	533.67	537.67	542.70	544.75	546.67	540.67	535.67	530.67	519.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		520.11	519.69	528.92	532.86	538.40	543.53	545.59	546.69	541.05	534.63	527.55	518.07
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			520.11	519.69	528.92	532.86	538.40	543.53	545.59	546.69	541.05	534.63	527.55	518.07
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		524.55	524.38	533.87	537.92	543.36	548.40	550.62	551.77	546.03	539.67	532.31	522.55
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		515.67	514.99	523.97	527.81	533.44	538.65	540.56	541.60	536.06	529.58	522.80	513.59
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			17.77	18.78	19.80	20.22	19.84	19.50	20.12	20.35	19.95	20.17	19.02	17.92
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Vapor Molecular Wt.	M_V	lb/lb-mole			78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	Liquid Density	W_L	lb/gal			7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	Reid Vapor Pressure	RVP	psi			No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP	No RVP
	Slope	SI	°F/vol %			No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope	No Slope
	C-C Vapor Pressure Equation Constant A	A	dimensionless			14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
	C-C Vapor Pressure Equation Constant B	B	°R			7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82	7,437.82
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ T_{LA}	$EXP(A-B/T_{LA})$		1.18	1.17	1.50	1.66	1.92	2.19	2.30	2.37	2.05	1.74	1.44	1.12
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ T_{LX}	$EXP(A-B/T_{LX})$		1.33	1.33	1.71	1.90	2.18	2.47	2.61	2.68	2.33	1.98	1.64	1.26
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ T_{LN}	$EXP(A-B/T_{LN})$		1.04	1.02	1.31	1.45	1.69	1.93	2.03	2.08	1.81	1.53	1.27	0.98
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		7.64	7.06	9.81	10.60	12.77	14.22	15.55	16.02	13.29	11.51	9.14	7.21
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		16.32	15.08	20.95	22.63	27.26	30.36	33.19	34.19	28.37	24.56	19.51	15.39
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		0.30	-	-	-	-	0.19	-	0.81	-	0.09	0.12	0.05
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		24.26	22.14	30.76	33.24	40.03	44.77	48.74	51.01	41.66	36.16	28.76	22.64
	Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000**		0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.01	0.01
	Controlled Monthly Emission Rate	**L_T**	**ton/month**	**L_T/2000 * (100%-CE)**		**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.02**	**0.02**	**0.01**	**0.01**
	Total Emission Loss Annually	**L_T**	**ton/year**	**sum of L_T**		**0.21**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	**T_{LX}**	°R	TLA+0.25*ΔTV		524.55	524.38	533.87	537.92	543.36	548.40	550.62	551.77	546.03	539.67	532.31	522.55
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ T_{LX}			1.33	1.33	1.71	1.90	2.18	2.47	2.61	2.68	2.33	1.98	1.64	1.26
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.02
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		8.68	8.08	11.27	12.20	14.630	16.24	17.821	18.39	15.229	13.22	10.44	8.20
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		18.52	17.24	24.05	26.03	31.229	34.67	38.041	39.24	32.507	28.23	22.29	17.50
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		172.11	161.00	172.11	166.56	172.108	166.56	172.108	172.11	166.556	172.11	166.56	172.11
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.27	0.27	0.28	0.28	0.293	0.30	0.306	0.31	0.298	0.29	0.28	0.27
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.27	0.27	0.28	0.28	0.293	0.30	0.306	0.31	0.298	0.29	0.28	0.27
	Maximum Hourly Emission Rate for Year	**L_T**	**lb/hr**	**Maximum L_T**		**0.31**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-66											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66
	FIN (Facility Identification Number)					68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66	68-95-66
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			561,835	567,371	552,233	493,091	507,271	777,911	446,134	607,739	711,980	377,032	704,861	552,692
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			57.66	60.51	67.63	71.40	61.81	42.55	34.51	32.61	35.30	43.96	48.28	54.99
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			536.67	536.67	542.67	542.67	547.67	550.67	553.67	553.67	550.67	545.67	536.67	523.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_s I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			536.67	536.67	542.67	542.67	547.67	550.67	553.67	553.67	550.67	545.67	536.67	523.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		521.14	523.85	530.13	535.20	542.39	547.01	549.36	549.16	544.68	536.99	526.87	518.06
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			521.14	523.85	530.13	535.20	542.39	547.01	549.36	549.16	544.68	536.99	526.87	518.06
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		521.14	523.85	530.13	535.20	542.39	547.01	549.36	549.16	544.68	536.99	526.87	518.06
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		521.14	523.85	530.13	535.20	542.39	547.01	549.36	549.16	544.68	536.99	526.87	518.06
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.99	4.21	4.76	5.25	6.00	6.53	6.82	6.79	6.26	5.43	4.47	3.75
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.99	4.21	4.76	5.25	6.00	6.53	6.82	6.79	6.26	5.43	4.47	3.75
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.99	4.21	4.76	5.25	6.00	6.53	6.82	6.79	6.26	5.43	4.47	3.75
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.13	0.15	0.16	0.15	0.14	0.12	0.09	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		247.51	259.98	328.65	372.75	421.96	390.08	380.15	367.86	337.17	316.88	256.31	225.32
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		301.97	337.66	437.39	520.34	534.63	411.52	353.58	332.49	322.65	334.30	289.25	267.94
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		29.67	29.96	29.16	26.04	26.79	41.08	23.56	32.09	37.60	19.91	37.22	29.19
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		579.15	627.61	795.20	919.13	983.38	842.68	757.29	732.45	697.42	671.08	582.78	522.45
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.29	0.31	0.40	0.46	0.49	0.42	0.38	0.37	0.35	0.34	0.29	0.26
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.29**	**0.31**	**0.40**	**0.46**	**0.49**	**0.42**	**0.38**	**0.37**	**0.35**	**0.34**	**0.29**	**0.26**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**4.36**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		521.14	523.85	530.13	535.20	542.39	547.01	549.36	549.16	544.68	536.99	526.87	518.06
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.99	4.21	4.76	5.25	6.00	6.53	6.82	6.79	6.26	5.43	4.47	3.75
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.13	0.15	0.16	0.15	0.14	0.12	0.09	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		247.51	259.98	328.65	372.75	421.959	390.08	380.149	367.86	337.168	316.88	256.31	225.32
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		301.97	337.66	437.39	520.34	534.634	411.52	353.580	332.49	322.650	334.30	289.25	267.94
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		86.44	80.86	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.85	0.97	1.15	1.36	1.402	1.23	1.102	1.06	1.033	0.99	0.87	0.78
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.85	0.97	1.15	1.36	1.402	1.23	1.102	1.06	1.033	0.99	0.87	0.78
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.40**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-74											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**
	FIN (Facility Identification Number)					**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**	**68-95-74**
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			150	150	150	150	150	150	150	150	150	150	150	150
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			321,879	270,132	366,085	314,040	373,679	103,989	443,689	298,002	222,563	449,881	154,875	269,109
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			10.92	10.45	11.27	11.09	11.07	10.04	9.93	9.83	9.70	10.37	10.28	10.82
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			520.67	519.67	526.67	531.67	534.67	540.67	542.67	543.67	541.67	533.67	539.67	532.17
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.97	517.72	523.93	530.98	538.98	544.25	546.32	546.10	541.14	532.47	522.10	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			520.67	519.67	526.67	531.67	538.98	544.25	546.32	546.10	541.67	533.67	539.67	532.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		516.34	518.75	525.33	531.90	539.78	545.08	547.16	546.89	541.98	533.39	527.77	520.61
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			516.34	518.75	525.33	531.90	539.78	545.08	547.16	546.89	541.98	533.39	527.77	520.61
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		516.34	518.75	525.33	531.90	539.78	545.08	547.16	546.89	541.98	533.39	527.77	520.61
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		516.34	518.75	525.33	531.90	539.78	545.08	547.16	546.89	541.98	533.39	527.77	520.61
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.62	3.80	4.34	4.93	5.72	6.31	6.55	6.52	5.96	5.07	4.55	3.95
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.62	3.80	4.34	4.93	5.72	6.31	6.55	6.52	5.96	5.07	4.55	3.95
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.62	3.80	4.34	4.93	5.72	6.31	6.55	6.52	5.96	5.07	4.55	3.95
	Vapor Pressure Function	**P***	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.09	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		221.16	230.69	293.62	344.81	396.43	372.24	360.15	347.98	315.93	291.00	261.79	239.21
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		51.09	51.72	65.09	74.79	89.93	92.66	96.36	94.76	83.10	72.43	62.89	55.96
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		17.00	14.27	19.33	16.58	19.73	5.49	23.43	15.74	11.75	23.76	8.18	14.21
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		289.25	296.67	378.04	436.18	506.10	470.39	479.94	458.47	410.78	387.19	332.85	309.38
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.14	0.15	0.19	0.22	0.25	0.24	0.24	0.23	0.21	0.19	0.17	0.15
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.14**	**0.15**	**0.19**	**0.22**	**0.25**	**0.24**	**0.24**	**0.23**	**0.21**	**0.19**	**0.17**	**0.15**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**2.38**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		516.34	518.75	525.33	531.90	539.78	545.08	547.16	546.89	541.98	533.39	527.77	520.61
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.62	3.80	4.34	4.93	5.72	6.31	6.55	6.52	5.96	5.07	4.55	3.95
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	**P***	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.08	0.09	0.10	0.12	0.14	0.15	0.15	0.13	0.11	0.09	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		221.16	230.69	293.62	344.81	396.433	372.24	360.154	347.98	315.934	291.00	261.79	239.21
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		51.09	51.72	65.09	74.79	89.931	92.66	96.356	94.76	83.097	72.43	62.89	55.96
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		86.44	80.86	86.44	83.65	86.436	83.65	86.436	86.44	83.648	86.44	83.65	86.44
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.48	0.52	0.60	0.70	0.770	0.76	0.730	0.71	0.670	0.60	0.57	0.51
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.48	0.52	0.60	0.70	0.770	0.76	0.730	0.71	0.670	0.60	0.57	0.51
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.77**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-75											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**
	FIN (Facility Identification Number)					**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**	**68-95-75**
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			42,968	89,291	17,440	44,661	17,672	24,344	19,594	9,853	8,829	49,957	53	1,889
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			60.88	63.59	70.95	74.66	65.08	45.52	37.46	35.54	38.18	47.04	51.32	58.19
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			536.67	529.67	543.67	541.67	543.67	549.67	552.67	552.67	548.67	544.67	525.67	514.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			536.67	529.67	543.67	541.67	543.67	549.67	552.67	552.67	548.67	544.67	525.67	515.17
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		521.14	521.75	530.43	534.90	541.19	546.71	549.06	548.86	544.08	536.69	523.57	515.51
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			521.14	521.75	530.43	534.90	541.19	546.71	549.06	548.86	544.08	536.69	523.57	515.51
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		521.14	521.75	530.43	534.90	541.19	546.71	549.06	548.86	544.08	536.69	523.57	515.51
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		521.14	521.75	530.43	534.90	541.19	546.71	549.06	548.86	544.08	536.69	523.57	515.51
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.99	4.04	4.79	5.22	5.87	6.50	6.78	6.76	6.19	5.40	4.19	3.56
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.99	4.04	4.79	5.22	5.87	6.50	6.78	6.76	6.19	5.40	4.19	3.56
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.99	4.04	4.79	5.22	5.87	6.50	6.78	6.76	6.19	5.40	4.19	3.56
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.13	0.15	0.15	0.15	0.14	0.11	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		198.01	198.00	264.78	296.09	327.99	309.79	301.88	292.13	265.85	251.70	189.78	169.79
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		318.84	337.78	462.07	540.23	546.87	437.09	381.00	359.64	343.98	355.13	284.56	267.03
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		2.84	5.89	1.15	2.95	1.17	1.61	1.29	0.65	0.58	3.30	0.00	0.12
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		519.69	541.67	728.00	839.27	876.02	748.49	684.18	652.42	610.41	610.13	474.34	436.94
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.26	0.27	0.36	0.42	0.44	0.37	0.34	0.33	0.31	0.31	0.24	0.22
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.26**	**0.27**	**0.36**	**0.42**	**0.44**	**0.37**	**0.34**	**0.33**	**0.31**	**0.31**	**0.24**	**0.22**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.86**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		521.14	521.75	530.43	534.90	541.19	546.71	549.06	548.86	544.08	536.69	523.57	515.51
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.99	4.04	4.79	5.22	5.87	6.50	6.78	6.76	6.19	5.40	4.19	3.56
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.13	0.15	0.15	0.15	0.14	0.11	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		198.01	198.00	264.78	296.09	327.989	309.79	301.884	292.13	265.851	251.70	189.78	169.79
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		318.84	337.78	462.07	540.23	546.869	437.09	381.000	359.64	343.976	355.13	284.56	267.03
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		108.05	101.07	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.84	0.92	1.12	1.31	1.321	1.18	1.063	1.02	0.992	0.96	0.80	0.73
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.84	0.92	1.12	1.31	1.321	1.18	1.063	1.02	0.992	0.96	0.80	0.73
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.32**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-76											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**
	FIN (Facility Identification Number)					**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**	**68-95-76**
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			120	120	120	120	120	120	120	120	120	120	120	120
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	Monthly Throughput	Q	bbls/month			1,397,010	1,223,622	1,908,047	1,739,373	1,815,251	1,847,299	1,941,056	1,953,562	1,973,674	1,746,614	1,741,009	1,685,114
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			10.71	10.25	11.06	10.89	10.86	9.84	9.73	9.63	9.51	10.17	10.08	10.61
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			535.17	525.67	548.67	547.67	552.67	551.67	554.67	554.67	549.67	544.67	544.67	534.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.95	517.70	523.91	530.95	538.95	544.22	546.29	546.07	541.11	532.45	522.08	515.17
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			535.17	525.67	548.67	547.67	552.67	551.67	554.67	554.67	549.67	544.67	544.67	534.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		520.69	520.55	531.93	536.70	543.89	547.31	549.66	549.46	544.38	536.69	529.27	521.36
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			520.69	520.55	531.93	536.70	543.89	547.31	549.66	549.46	544.38	536.69	529.27	521.36
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		520.69	520.55	531.93	536.70	543.89	547.31	549.66	549.46	544.38	536.69	529.27	521.36
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		520.69	520.55	531.93	536.70	543.89	547.31	549.66	549.46	544.38	536.69	529.27	521.36
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	SI	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.96	3.94	4.93	5.40	6.17	6.57	6.85	6.83	6.23	5.40	4.68	4.01
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.96	3.94	4.93	5.40	6.17	6.57	6.85	6.83	6.23	5.40	4.68	4.01
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.96	3.94	4.93	5.40	6.17	6.57	6.85	6.83	6.23	5.40	4.68	4.01
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.11	0.10	0.08
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		195.93	192.50	274.30	308.99	349.98	314.35	306.37	296.47	267.78	251.70	216.94	194.76
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		55.51	52.94	74.59	82.23	97.38	95.90	100.40	98.88	86.28	76.79	63.89	55.87
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		92.22	80.77	125.95	114.82	119.82	121.94	128.13	128.95	130.28	115.29	114.92	111.23
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		343.66	326.22	474.84	506.03	567.18	532.19	534.90	524.30	484.35	443.78	395.75	361.87
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.17	0.16	0.24	0.25	0.28	0.27	0.27	0.26	0.24	0.22	0.20	0.18
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.17**	**0.16**	**0.24**	**0.25**	**0.28**	**0.27**	**0.27**	**0.26**	**0.24**	**0.22**	**0.20**	**0.18**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**2.75**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		520.69	520.55	531.93	536.70	543.89	547.31	549.66	549.46	544.38	536.69	529.27	521.36
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.96	3.94	4.93	5.40	6.17	6.57	6.85	6.83	6.23	5.40	4.68	4.01
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.08	0.08	0.10	0.11	0.14	0.15	0.16	0.16	0.14	0.11	0.10	0.08
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		195.93	192.50	274.30	308.99	349.981	314.35	306.374	296.47	267.785	251.70	216.94	194.76
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		55.51	52.94	74.59	82.23	97.377	95.90	100.402	98.88	86.284	76.79	63.89	55.87
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		108.05	101.07	108.05	104.56	108.045	104.56	108.045	108.05	104.560	108.05	104.56	108.05
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.48	0.50	0.61	0.69	0.747	0.72	0.692	0.68	0.637	0.59	0.54	0.48
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.48	0.50	0.61	0.69	0.747	0.72	0.692	0.68	0.637	0.59	0.54	0.48
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**0.75**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-98											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98
	FIN (Facility Identification Number)					68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98	68-95-98
	Product:					**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**	**Light Petroleum Fractions**
Tank Data	Diameter	D	ft			130	130	130	130	130	130	130	130	130	130	130	130
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
	Monthly Throughput	Q	bbls/month			0	42,946	4,991	0	10,122	0	16,707	0	0	0	1,904	0
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			61.07	63.71	71.06	74.73	65.23	45.82	37.86	35.96	38.55	47.34	51.57	58.40
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			515.67	516.67	519.67	532.67	541.67	545.67	546.67	546.67	544.67	529.67	526.67	519.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +57)$		513.97	517.72	523.92	530.97	538.98	544.24	546.31	546.09	541.13	532.47	522.09	515.18
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170 H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			515.67	517.72	523.92	532.67	541.67	545.67	546.67	546.67	544.67	532.47	526.67	519.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	523.87	516.86
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	523.87	516.86
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	523.87	516.86
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	523.87	516.86
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
	C-C Vapor Pressure Equation Constant B	B	°R			5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23	5,430.23
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.21	3.66
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.21	3.66
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.21	3.66
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		185.03	197.20	249.60	300.95	350.26	325.96	312.94	302.84	279.80	250.06	207.05	189.86
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		275.88	311.16	402.72	507.33	540.37	427.30	368.49	348.25	337.41	327.80	287.94	276.63
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		-	2.62	0.30	-	0.62	-	1.02	-	-	-	0.12	-
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		460.92	510.97	652.62	808.28	891.24	753.26	682.45	651.09	617.20	577.86	495.10	466.49
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.23	0.26	0.33	0.40	0.45	0.38	0.34	0.33	0.31	0.29	0.25	0.23
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.23**	**0.26**	**0.33**	**0.40**	**0.45**	**0.38**	**0.34**	**0.33**	**0.31**	**0.29**	**0.25**	**0.23**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.78**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		514.84	518.16	524.51	532.20	540.59	545.51	547.26	547.06	542.88	533.03	523.87	516.86
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.51	3.76	4.27	4.96	5.81	6.36	6.56	6.54	6.06	5.04	4.21	3.66
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.10	0.13	0.14	0.15	0.15	0.13	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		185.03	197.20	249.60	300.95	350.255	325.96	312.939	302.84	279.796	250.06	207.05	189.86
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		275.88	311.16	402.72	507.33	540.370	427.30	368.495	348.25	337.406	327.80	287.94	276.63
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		136.00	127.23	136.00	131.61	136.001	131.61	136.001	136.00	131.614	136.00	131.61	136.00
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.80	0.91	1.06	1.31	1.380	1.23	1.099	1.06	1.040	0.96	0.87	0.81
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.80	0.91	1.06	1.31	1.380	1.23	1.099	1.06	1.040	0.96	0.87	0.81
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.38**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-206											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	FIN (Facility Identification Number)					**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**	**68-95-206**
	Product:					**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft			134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month			158,668	219,438	265,378	138,798	209	239	0	0	0	0	36	84,799
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			58.10	60.95	68.12	71.89	62.27	42.90	34.82	32.91	35.61	44.33	48.67	55.42
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	lb-mole/(mph)^n-ft-yr			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	Btu/ft^2·d			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			523.67	523.17	534.67	534.67	532.67	532.67	543.67	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_S I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			523.67	523.17	534.67	534.67	539.04	544.30	546.37	553.67	545.67	539.67	527.17	525.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		517.24	519.80	527.73	532.80	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			517.24	519.80	527.73	532.80	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		517.24	519.80	527.73	532.80	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		517.24	519.80	527.73	532.80	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R			5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.32	3.49	4.10	4.52	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.32	3.49	4.10	4.52	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.32	3.49	4.10	4.52	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		183.93	192.48	252.55	286.00	321.28	300.94	290.84	296.59	263.04	246.39	195.05	186.05
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		253.10	281.87	378.93	449.99	459.04	358.38	305.55	302.84	284.28	293.42	248.37	249.58
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		9.38	12.97	15.69	8.20	0.01	0.01	-	-	-	-	0.00	5.01
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		446.41	487.32	647.17	744.20	780.33	659.33	596.39	599.42	547.32	539.81	443.43	440.64
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.22	0.24	0.32	0.37	0.39	0.33	0.30	0.30	0.27	0.27	0.22	0.22
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.22**	**0.24**	**0.32**	**0.37**	**0.39**	**0.33**	**0.30**	**0.30**	**0.27**	**0.27**	**0.22**	**0.22**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.47**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		517.24	519.80	527.73	532.80	539.80	545.10	547.18	549.16	543.18	535.19	524.02	518.66
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.32	3.49	4.10	4.52	5.17	5.71	5.93	6.15	5.51	4.74	3.81	3.41
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		183.93	192.48	252.55	286.00	321.276	300.94	290.838	296.59	263.043	246.39	195.05	186.05
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		253.10	281.87	378.93	449.99	459.042	358.38	305.551	302.84	284.282	293.42	248.37	249.58
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		72.57	67.89	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	($L_R+L_F+L_D+L_{WD}$)/(hours in the month)		0.68	0.78	0.95	1.12	1.146	1.01	0.899	0.90	0.858	0.82	0.71	0.68
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.68	0.78	0.95	1.12	1.146	1.01	0.899	0.90	0.858	0.82	0.71	0.68
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.15**											

Baseline Actual Emissions: 2020
Floating Roof Tank Emission Calculations
Phillips 66 Company
September 2021

					Tank ID	68-95-210											
					Month	January	February	March	April	May	June	July	August	September	October	November	December
					Year	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
	Parameter Name and Variable		**Units**	**Notes**													
	EPN (Emission Point Number)					**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	FIN (Facility Identification Number)					**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**	**68-95-210**
	Product:					**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**	**Gasoline Blendstock**
Tank Data	Diameter	D	ft			134	134	134	134	134	134	134	134	134	134	134	134
	Tank Type		-			EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR	EFR
	Insulated?		-			0	0	0	0	0	0	0	0	0	0	0	0
	Tank Shell Nominal Height	H_S	ft			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Internal Shell Condition		-			Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust	Light Rust
	Shell Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Shell Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Roof Paint Color		-			White	White	White	White	White	White	White	White	White	White	White	White
	Roof Paint Condition		-			New	New	New	New	New	New	New	New	New	New	New	New
	Tank Shell Paint Solar Absorptance	α_S	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Tank Roof Paint Solar Absorptance	α_R	-			0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Maximum Pump Rate	PR_m	bbl/hr	Withdrawal for EFR; Withdrawal/Fill for IFR		1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	Monthly Throughput	Q	bbls/month			237,634	182,641	277,570	395,737	355,727	600,108	240,245	268,093	260,708	266,467	226,330	185,542
	Shell Clingage	C_S	bbl/ft^2			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	No. of Columns	N_C	-			-	-	-	-	-	-	-	-	-	-	-	-
	Column Diameter	F_C	ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Fitting Factor	F_F	lb-mole/month			62.05	64.69	72.13	75.81	66.25	46.64	38.59	36.67	39.28	48.19	52.45	59.35
	Roof Type (EFR or DEFR only)		-			Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon	Pontoon
	Deck (Welded or Bolted)		-			Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded	Welded
	Construction		-			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Sheet/Panel Width		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Panel Length		ft			-	-	-	-	-	-	-	-	-	-	-	-
	Deck Seam Loss Factor	K_D	lb-mole/ft·month			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Deck Seam Length Factor	S_D	ft/ft^2			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Product Factor	K_C	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Tank Rim Seal Factor, Kra	K_{Ra}	lb-mole/ft-yr			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Tank Rim Seal Factor, Krb	K_{Rb}	$lb\text{-}mole/(mph)^n\text{-}ft\text{-}yr$			0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Tank Rim Seal Factor, n	n	-			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Rim Seal Factor	K_R	lb-mole/ft·month	$K_{Ra}+K_{Rb}*v^n$		0.32	0.31	0.34	0.34	0.33	0.27	0.25	0.24	0.25	0.28	0.29	0.31
	Control Efficiency	CE	percent			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meteorological Data	Active Days		days			31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0
	Met Data		-			Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX	Houston, TX
	Monthly Average Wind Speed	v	mph	Equal 0 for IFR & DEFR Tanks		7.80	8.30	8.50	8.90	8.10	6.70	5.80	5.60	6.00	6.70	7.20	7.60
	Daily Total Solar Insolation Factor	I	$Btu/ft^2\cdot d$			832	1022	1333	1635	1828	1915	1930	1804	1567	1288	930	767
	Atmospheric Pressure	P_A	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
	Average Daily Maximum Ambient Temperature	T_{AX}	°F			62.60	66.40	72.30	78.70	85.90	90.70	93.10	93.40	88.90	81.20	71.20	64.10
	Average Daily Minimum Ambient Temperature	T_{AN}	°F			43.80	47.00	52.70	59.60	67.90	73.40	75.10	74.70	69.90	61.00	51.20	44.90
	Daily Ambient Temp. Change	ΔT_A	°R	T_{AX} - T_{AN}		18.80	19.40	19.60	19.10	18.00	17.30	18.00	18.70	19.00	20.20	20.00	19.20
	Daily Avg. Ambient Temperature	T_{AA}	°R	$[(T_{AX}+459.67)+(T_{AN}+459.67)]/2$		512.87	516.37	522.17	528.82	536.57	541.72	543.77	543.72	539.07	530.77	520.87	514.17
	Insulated Min Bulk Temperature	T_{BN}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Max Bulk Temperature	T_{BX}	°R	Only for fully insulated tanks		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature Override	T_B	°R			533.17	527.67	541.67	538.67	544.67	552.67	551.67	554.67	552.67	548.67	539.67	528.67
	IFR or DEFR Liquid Bulk Temperature	T_B	°R	$T_{AA} + 0.003\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.71\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +57)$		513.99	517.75	523.97	531.03	539.04	544.30	546.37	546.15	541.18	532.51	522.12	515.20
	EFR w/ Double Deck Liquid Bulk Temperature	T_B	°R	$T_{AA} + [0.39\alpha_R I+0.485(H_S/D)\alpha_S I] / (170\ H_S/D +45)$		-	-	-	-	-	-	-	-	-	-	-	-
	Liquid Bulk Temperature	T_B	°R			533.17	527.67	541.67	538.67	544.67	552.67	551.67	554.67	552.67	548.67	539.67	528.67
	IFR or DEFR Daily Avg. Liquid Surface Temperature	T_{LA}	°R	$[(2.86(H_S/D)+1.43)T_{AA}+(3.52(H_S/D)+3.79)T_B+0.027\alpha_R I+0.017(H_S/D)\alpha_S I] / [6.38(H_S/D)+5.22]$		-	-	-	-	-	-	-	-	-	-	-	-
	EFR w/ Pontoon Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.7T_{AA} + 0.3T_B + 0.008\alpha_R I$		520.09	521.15	529.83	534.00	541.49	547.61	548.76	549.46	545.28	537.89	527.77	519.56
	EFR w/ Double Deck Daily Avg. Liquid Surface Temp	T_{LA}	°R	$0.3T_{AA} + 0.7T_B + 0.009\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Avg. Liquid Surface Temperature	T_{LA}	°R			520.09	521.15	529.83	534.00	541.49	547.61	548.76	549.46	545.28	537.89	527.77	519.56
	Daily Max. Liquid Surface Temperature	T_{LX}	°R	$T_{LA}+0.25*\Delta T_V$		520.09	521.15	529.83	534.00	541.49	547.61	548.76	549.46	545.28	537.89	527.77	519.56
	Daily Min. Liquid Surface Temperature	T_{LN}	°R	$T_{LA}-0.25*\Delta T_V$		520.09	521.15	529.83	534.00	541.49	547.61	548.76	549.46	545.28	537.89	527.77	519.56
	Uninsulated Average Daily Vapor Temp. Range	ΔT_V	°R	$(1-0.8/2.2(H_S/D)+1.9)\Delta T_A + (0.042\alpha_R I+0.026(H_S/D)\alpha_S I)/(2.2(H_S/D)+1.9)$		-	-	-	-	-	-	-	-	-	-	-	-
	Partially Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	$0.6\Delta T_A + 0.02\alpha_R I$		-	-	-	-	-	-	-	-	-	-	-	-
	Insulated Average Daily Vapor Temp. Range	ΔT_V	°R	T_{BX} - T_{BN}		-	-	-	-	-	-	-	-	-	-	-	-
	Daily Vapor Temperature Range	ΔT_V	°R			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Product Data	Crude Oil Service?	-	Y/N			N	N	N	N	N	N	N	N	N	N	N	N
	Liquid Molecular Wt.	M_L	lb/lb-mole			92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	Vapor Molecular Wt.	M_V	lb/lb-mole			68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
	Liquid Density	W_L	lb/gal			5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Reid Vapor Pressure	RVP	psi			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	Slope	Sl	°F/vol %			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	C-C Vapor Pressure Equation Constant A	A	dimensionless			11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
	C-C Vapor Pressure Equation Constant B	B	°R			5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60	5,500.60
	True Vapor Pressure @ T_{LA}	P_{VA}	psia @ $\mathbf{T_{LA}}$	$EXP(A-B/T_{LA})$		3.51	3.59	4.27	4.63	5.34	5.98	6.11	6.19	5.73	4.99	4.10	3.48
	True Vapor Pressure @ T_{LX}	P_{VX}	psia @ $\mathbf{T_{LX}}$	$EXP(A-B/T_{LX})$		3.51	3.59	4.27	4.63	5.34	5.98	6.11	6.19	5.73	4.99	4.10	3.48
	True Vapor Pressure @ T_{LN}	P_{VN}	psia @ $\mathbf{T_{LN}}$	$EXP(A-B/T_{LN})$		3.51	3.59	4.27	4.63	5.34	5.98	6.11	6.19	5.73	4.99	4.10	3.48
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.09	0.11	0.13	0.13	0.14	0.12	0.10	0.08	0.07
Annual Emissions	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		196.59	198.63	265.20	294.12	334.29	319.44	302.08	298.73	276.44	262.45	212.84	190.00
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		288.93	308.72	421.35	487.96	508.16	413.51	351.79	339.85	329.57	339.73	292.05	272.98
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		-	-	-	-	-	-	-	-	-	-	-	-
	Withdrawal Loss	L_W	lb/month	$(0.943QC_S W_L/D)(1+[N_C F_C]/D)$		14.05	10.80	16.41	23.39	21.03	35.47	14.20	15.85	15.41	15.75	13.38	10.97
	Total Emission Loss	L_T	lb/month	$L_R+L_F+L_D+L_W$		499.56	518.15	702.96	805.47	863.48	768.43	668.07	654.42	621.42	617.93	518.27	473.95
	Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000}$		0.25	0.26	0.35	0.40	0.43	0.38	0.33	0.33	0.31	0.31	0.26	0.24
	Controlled Monthly Emission Rate	$\mathbf{L_T}$	**ton/month**	$\mathbf{L_T/2000 * (100\%-CE)}$		**0.25**	**0.26**	**0.35**	**0.40**	**0.43**	**0.38**	**0.33**	**0.33**	**0.31**	**0.31**	**0.26**	**0.24**
	Total Emission Loss Annually	$\mathbf{L_T}$	**ton/year**	**sum of $\mathbf{L_T}$**		**3.86**											
Maximum Short Term Emissions	Daily Max. Liquid Surface Temperature (see note)	$\mathbf{T_{LX}}$	°R	TLA+0.25*ΔTV		520.09	521.15	529.83	534.00	541.49	547.61	548.76	549.46	545.28	537.89	527.77	519.56
	Max Short-Term Basis Vapor Pressure	P_{VX}	psia @ $\mathbf{T_{LX}}$			3.51	3.59	4.27	4.63	5.34	5.98	6.11	6.19	5.73	4.99	4.10	3.48
	Short Term Product Factor	K_C	-	For Crude Products = 0.6 vs 0.4		1.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Vapor Pressure Function	P*	dimensionless	$P_{VA}/P_A/(1+(1-(P_{VA}/P_A))^{0.5})^2$		0.07	0.07	0.09	0.09	0.11	0.13	0.13	0.14	0.12	0.10	0.08	0.07
	Rim Seal Loss	L_R	lb/month	K_R (P*) D M_V K_C		196.59	198.63	265.20	294.12	334.294	319.44	302.081	298.73	276.439	262.45	212.84	190.00
	Deck Fitting Loss	L_F	lb/month	F_F (P*) M_V K_C		288.93	308.72	421.35	487.96	508.161	413.51	351.787	339.85	329.571	339.73	292.05	272.98
	Deck Seam Loss	L_D	lb/month	K_D S_D D^2 (P*) M_V K_C		0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
	Withdrawal Loss	L_{WD}	lb/month	(0.943 PRm (hours in month) C_S W_L/D)(1+[N_C F_C]/D)		72.57	67.89	72.57	70.23	72.568	70.23	72.568	72.57	70.227	72.57	70.23	72.57
	Maximum Hourly Emission Rate	L_T	lb/hr	$(L_R+L_F+L_D+L_{WD})$/(hours in the month)		0.75	0.83	1.02	1.18	1.230	1.12	0.976	0.96	0.939	0.91	0.80	0.72
	Maximum Hourly Emission Rate	L_T	lb/hr	L_T+L * (100%-CE)		0.75	0.83	1.02	1.18	1.230	1.12	0.976	0.96	0.939	0.91	0.80	0.72
	Maximum Hourly Emission Rate for Year	$\mathbf{L_T}$	**lb/hr**	**Maximum $\mathbf{L_T}$**		**1.23**											

MAKING
COMPLEX
EASY

Contact

4801 Southwest Parkway, Parkway 2,
Suite 150
Austin TX 78735
T +1 512 347 7588

Katherine Mareno
Environmental Director

PHILLIPS 66
Sweeny Refinery
P. O. Box 866
Sweeny, TX 77480
Phone 979.491.2111

August 28, 2023

CERTIFIED MAIL NO.:9589 0710 5270 0427 3758 94

Mr. Jesse Chacon, PE, (MC163)
Manager, Operating Permits Section
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

RE: Federal Operating Permit Revision
Federal Operating Permit No. O-1626
Phillips 66 Company (CN604065912)
Sweeny Refinery (RN101619179)
Old Ocean, TX; Brazoria County

Dear Mr. Chacon,

Phillips 66 Company, Sweeny Refinery, located at Old Ocean, Brazoria County, respectfully submits a Federal Operating Permit No. O-1626 revision. The purpose of the revision is to correct regulatory inconsistencies and incorporate the latest permit by rules in permit by rule supplemental table (form 20875).

The revision application includes a signed Certification by Responsible Official (OP-CRO1), OP-2, OP-SUMR, OP-REQ3, OP-UA50, OP-PBRSUP. The application is being submitted by STEERS and a copy is being emailed to both EPA Region VI and TCEQ Region 12 office.

If you have any questions, please call Raleigh Smith at (979)491-2020 or Raleigh.Smith@p66.com.

Sincerely,

Katherine Mareno
Environmental Director

cc:

Steve Thompson
Chief, Air Enforcement Branch
Enforcement and Compliance Assurance Division
EPA Region 6
1201 Elm Street, Suite 500
Dallas, Texas 75270
CERTIFIED MAIL NO.: 9589 0710 5270 0427 3759 00

Enclosure: Form OP-CRO1
Form OP-2
Form OP-SUMR
OP-REQ3
OP-UA50
OP-PBRSUP

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: RN101619179	CN:CN604065912	Account No.:BL-0042-G
Permit No.: O-1626	Project No.:	
Area Name: Sweeny Refinery	Company Name: Phillips 66 Company	

II. Certification Type *(Please mark the appropriate box)*

☒ Responsible Official ☐ Duly Authorized Representative

III. Submittal Type *(Please mark the appropriate box) (Only one response can be accepted per form)*

☐ SOP/TOP Initial Permit Application ☐ Update to Permit Application

☐ GOP Initial Permit Application ☒ Permit Revision, Renewal, or Reopening

☐ Other: Consent Decree Driven Changes

IV. Certification of Truth

This certification does not extend to information which is designated by the TCEQ as information for reference only.

I, William L Stone certify that I am the RO
(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____
Start Date *End Date*

Specific Dates: _____ _____ _____ _____ _____ _____
Date 1 *Date 2* *Date 3* *Date 4* *Date 5* *Date 6*

Signature: [signature] Signature Date: Aug 28, 2023

Title: VP, Sweeny Refinery

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1

Date:	8/24/2023
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

For Submissions to EPA *(SOP renewal, minor revision, and significant revision application only)*

Has a copy of this application been submitted (or is being submitted) to EPA?	XYES ❑ NO

I. Application Type

Indicate the type of application:

❑Renewal ✓ Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)

❑ Significant Revision ❑Revision Requesting Prior Approval ❑ Administrative Revision ❑ Response to Reopening

II. Qualification Statement

For SOP Revisions Only The referenced changes qualify for the marked revision type.	X YES ❑ NO
For GOP Revisions Only The permitted area continues to qualify for a GOP.	❑YES ❑ NO

III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)

Indicate all pollutants for which the site is a major source based on the site's potential to emit after the change is operated:

Pollutant	VOC	NO_X	SO_2	PM_{10}	CO	Pb	HAPs	Other
Major at the site *(YES/NO)*:	YES	YES	YES	YES	YES	NO	YES	

IV. Reference Only Requirements *(For reference only)*

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?	X YES ❑ NO ❑ N/A

V. Delinquent Fees and Penalties

Notice: This form will not be processed until all delinquent fees and/or penalties owed the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2

Date:	08/24/2023
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

I. Description of Revision

Revision No.	Revision Code	Unit/Group Process			NSR Authorization	Description of change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
1	MS-C				PN5920A	Adding NSPS Subpart J applicability to heaters
1	MS-C				PN18142	Adding NSPS Subpart J applicability to heater
1	MS-C				PN30513	Adding NSPS Subpart J applicability to heaters
1	MS-C				PN49140	Adding NSPS Subpart J applicability to heater
1	MS-C				118699	Adding NSPS Subpart Ja applicability to heater

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3

Date:	08/24/2023
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

I. Significant Revision *(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)*

A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322?	❑YES X NO
B.	Indicate the alternate language(s) in which public notice is required:	
C.	Will there be a change in air pollutant emissions as a result of the significant revision	❑YES X NO
D.	Indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:	

Pollutant	Description of the Change in Pollutant Emissions

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date: 08-24-2023	Regulated Entity No.: RN101619179	Permit No.:O-1626
Company Name: Phillips Company	Area Name: Sweeny Refining Assets	

Unit/Process						Preconstruction Authorizations	
AI	Revision No.	ID No.	Applicable Form	Name/ Description	CAM	30 TAC Chapter 116/ 30 TAC Chapter 106	Title I
	1	3-36-4	OP-UA50	U3 Reactor Preheater 1		1486	
	1	9-36-4	OP-UA50	Crude Charge Heater		5920A	PSD-TX-103M4/N292
	1	11-36-1	OP-UA50	U11 Prefac Furnace		30513	
	1	11-36-5	OP-UA50	U11 HDS Furnace		30513	
	1	14-36-3	OP-UA50	U14 Prefac Furnace		30513	
	1	14-36-4	OP-UA50	U14 HDS Furnace		30513	
	1	20-36-1	OP-UA50	Pentane Reactor Furnace		49140	
	1	25.1-36-1	OP-UA50	Crude Charge Heater		5920A	PSD-TX-103M4/N292
	1	25.2-CS	OP-UA50	Reactor Charge Heater		5920A	PSD-TX-103M4/N292
	1	26-CS	OP-UA50	Charge Heater		5920A	PSD-TX-103M4/N292
	1	29.1-36-001	OP-UA50	Vacuum Unit Heater		5920A	PSD-TX-103M4/N292

Unit/Process						Preconstruction Authorizations	
AI	Revision No.	ID No.	Applicable Form	Name/ Description	CAM	30 TAC Chapter 116/ 30 TAC Chapter 106	Title I
	1	29.2-36-CS	OP-UA50	Coker Heater		5920A	PSD-TX-103M4/N292
	1	30-36-1	OP-UA50	Isostripper Reboiler		18142	N278
	1	35-36-1	OP-UA50	CCR Furnace		30513	
	1	38-36-251	OP-UA50	Reactor Charge Heater		5920A	PSD-TX-103M4/N292
	1	38-36-252	OP-UA50	Stripper Reboiler		5920A	PSD-TX-103M4/N292
	1	45-36-1	OP-UA50	ULSG Heater		118699	
D	1	15-36-2	OP-UA50	Decoke Furnace		22086	
D	1	15-36-3	OP-UA50	Hydrogen Reactor Feed Preheater		49140	

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart J: Standards of Performance for Petroleum Refineries

Date:	**8-24-2023**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
3-36-4	60J3364	FUELHI	73-B	NO	NO	NO	NO	
9-36-4	60J9364	FUELHI	73-B	NO	NO	NO	NO	
11-36-1	60J11361	FUELHI	73-B	NO	NO	NO	NO	
11-36-5	60J11365	FUELHI	73-B	NO	NO	NO	NO	
20-36-1	60J20361	FUELHI	73-B	NO	NO	NO	NO	
25.1-36-1	60J251361	FUELHI	73-08	NO	NO	NO	NO	
25.2-CS	60J252CS	FUELHI	73-08	NO	NO	NO	NO	
29.1-36-001	60J2913601	FUELHI	73-08	NO	NO	NO	NO	
29.2-36-CS	60J29236CS	FUELHI	73-08	NO	NO	NO	NO	
26-CS	60J26CS	FUELHI	73-08	NO	NO	NO	NO	
14-36-3	60J14363	FUELHI	73-B	NO	NO	NO	NO1	

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart J: Standards of Performance for Petroleum Refineries

Date:	**8-24-2023**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
14-36-4	60J14364	FUELHI	73-B	NO	NO	NO	NO	
30-36-1	60J30361	FUELHI	73-08	NO	NO	NO	NO	
35-36-1	60J35361	FUELLOW	73-08	NO	NO	NO	NO	
38-36-251	60J3836251	FUELHI	73-08	NO	NO	NO	NO	
38-36-252	60J3836252	FUELHI	73-08	NO	NO	NO	NO	

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:8-24-2023	**Regulated Entity No.:101619179**	**Permit No.: O-1626**
Company Name: Phillips 66	**Area Name: Sweeny Refinery**	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
1	11-36-1	OP-UA50	60J11361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	11-36-5	OP-UA50	60J11365	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	14-36-3	OP-UA50	60J14363	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	14-36-4	OP-UA50	60J14364	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	25.1-36-1	OP-UA50	60J251361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	25.2-CS	OP-UA50	60J252CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	26-CS	OP-UA50	60J26CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	29.1-36-001	OP-UA50	60J2913601	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	29.2-36-CS	OP-UA50	60J29236CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	30-36-1	OP-UA50	60J30361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	35-36-1	OP-UA50	60J35361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	38-36-251	OP-UA50	60J3836251	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	38-36-252	OP-UA50	60J3836252	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	45-36-1	OP-UA50	60Ja45361	SO2/NOx	NSPS Subpart Ja	40 CFR 60.102a(g)(1) and (g)(2)
1	20-36-1	OP-UA50	60J20361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program

Table 1b: Additions

Date:08-24-2023	Regulated Entity No.: 101619179	Permit No.: O-1626
Company Name: Phillips 66	Area Name: Sweeny Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	11-36-1	60J11361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	11-36-5	60J11365	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	14-36-3	60J14363	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	14-36-4	60J14364	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	25.1-36-1	60J251361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	20-36-1	60J20361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	25.2-CS	60J252CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	26-CS	60J26CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	29.1-36-001	60J2913601	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	29.2-36-CS	60J29236CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	30-36-1	60J30361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	35-36-1	60J35361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	38-36-251	60J3836251	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	38-36-252	60J3836252	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	45-36-1	60Ja45361	SO2&NO2	40CFR60.107a(2), 40CFR60.107a (c)(6)	40 CFR 60.108a(a)&(b)	40 CFR 60.108a(a)&(b), 40 CFR 60.108a(c)(5)

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08-24-2023	O-1626	RN101619179

Unit ID No.	Registration No.	PBR No.	Registration Date
54-22-14	167892	30 TAC 106.4/106.8/106.371	2/7/2022
38-0-0, 68TK208, 68TK211,68TK212	168860	30 TAC 106.261	4/27/2022
3-0-0,4-0-0,5-0-0,6-0-0S,7-0-0,8-0-0,9-0-0, 11-0-0,14-0-0,15-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
17-0-0,19-0-0,20-0-0,25.1-0-0,25.2-0-0,26.1-0-0,26.2-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
27.1-0-0,27.2-0-0,27.-0-0,28.1-0-0,28.2-0-0,29.1-0-0,29.2-0-0	168576	30TAC 106.261/30TAC106.262	3/31/2022
30-0-0,35-0-0,38-0-0,39.1-0-0, 51-0-0,56-0-0,87-0-0,68.1-0-0,68.2-0-0	168576	30TAC106.261/30TAC106.262	3/31/2022
Petroleum coke handling	43038	30TAC106.261	01/05/2000
Crude Unit Caustic line,25.1-0-0	77156	30TAC106.261/30TAC106.262	11/01/2005
Amine flash drum, 28.1-0-0	82601	30 TAC 106.262	08/01/2007
Crude unloading, 68.1-0-0	95086	30 TAC106.352,30 TAC106.475	04/05/2011
Crude fugitives, 68.1-0-0	160243	30TAC 106.261, 30TAC106.262, 30TAC 106.4	02/24/2020

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08-24-2023	O-1626	RN101619179

Unit ID No.	PBR No.	Version No./Date
25.1-0-0	**77153**	**11/23/2005**
68.1-0-0 (BB unloading)	**114522**	**03/10/2015**
Sweeny Mixed Pentane Project (P-Load, P-Fug)	**116241**	**03/27/2014**
68TK208	**158959**	**10/29/2019**
Railcar diesel loading	**157719**	**07/23/2019**
Gasoline inline blending	**25434**	**12/29/1994**
9-36-4, 9-0-0	**118459**	**05/09/2014**
New cooling tower	**151092**	**03/27/2018**
54-22-14	**167892**	**03/03/2022**
68-95-259, 68-95-260	**151896**	**05/04/2018**
Ammonia injection into EPN 3-95-3	**169961**	**09/30/2022**
LOPA Bypass	**164644**	**03/31/2021**
Loading of Hexane and FGR fugitives (86-0-0)	165952	07/30/2021

Carolyn Thomas

From: Johnny Bowers
Sent: Thursday, September 28, 2023 11:18 AM
To: Carolyn Thomas
Subject: FW: STEERS Title V Application Submittal (New Application)

Follow Up Flag: Follow up
Flag Status: Flagged

Please process. Thanks!

-----Original Message-----
From: steers@tceq.texas.gov <steers@tceq.texas.gov>
Sent: Tuesday, September 26, 2023 9:32 AM
To: RFCAIR12 <RFCAIR12@tceq.texas.gov>; karenc@brazoria-county.com; TVAPPS <tvapps@tceq.texas.gov>
Subject: STEERS Title V Application Submittal (New Application)

The TV-E application has been successfully submitted by WILLIAM STONE. The submittal was received at 09/26/2023 09:32 AM.

The Reference number for this submittal is 588046

The confirmation number for this submittal is 490745.
The Area ID for this submittal is 1626.
The Project ID for this submittal is 35645.
The hash code for this submittal is 810263A02C31D584D7D1EE4A54085D0188C8C4D453613E3B7E0F25578301C332.

You may access the original application submittal and the notice of final action documents from the COR Viewer which is available at https://ida.tceq.texas.gov/steersstaff/index.cfm?fuseaction=openadmin.submitlog&newsearch=yes.

If you have any questions, please contact the STEERS Help Line at 512-239-6925 or by e-mail at steers@tceq.texas.gov.

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart J: Standards of Performance for Petroleum Refineries

Date:	**8-22-2022**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
3-36-4	60J3364	FUELHI	73-B	NO	NO	NO	NO	
9-36-4	60J9364	FUELHI	73-B	NO	NO	NO	NO	
11-36-1	60J11361	FUELHI	73-B	NO	NO	NO	NO	
11-36-5	60J11365	FUELHI	73-B	NO	NO	NO	NO	
20-36-1	60J20361	FUELHI	73-B	NO	NO	NO	NO	
25.1-36-1	60J251361	FUELHI	73-08	NO	NO	NO	NO	
25.2-CS	60J252CS	FUELHI	73-08	NO	NO	NO	NO	
29.1-36-001	60J2913601	FUELHI	73-08	NO	NO	NO	NO	
29.2-36-CS	60J29236CS	FUELHI	73-08	NO	NO	NO	NO	
26-CS	60J26CS	FUELHI	73-08	NO	NO	NO	NO	
14-36-3	60J14363	FUELHI	73-B	NO	NO	NO	NO1	

Texas Commission on Environmental Quality
Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
Form OP-UA50 (Page 1)
Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart J: Standards of Performance for Petroleum Refineries

Date:	**8-22-2022**
Permit No.:	**O-1626**
Regulated Entity No.:	**RN101619179**

Unit ID. No.	SOP Index No.	Facility Type	Construction/ Modification Date	Contact Material	Sulfur Content	Discharged Gases	CO Monitoring	CO Exemption ID
14-36-4	60J14364	FUELHI	73-B	NO	NO	NO	NO	
30-36-1	60J30361	FUELHI	73-08	NO	NO	NO	NO	
35-36-1	60J35361	FUELLOW	73-08	NO	NO	NO	NO	
38-36-251	60J3836251	FUELHI	73-08	NO	NO	NO	NO	
38-36-252	60J3836252	FUELHI	73-08	NO	NO	NO	NO	

Form OP-PBRSUP - Instructions
Permits By Rule Supplemental Table
Texas Commission on Environmental Quality

General:

The form is used to provide supplemental information for all Permits by Rule (PBRs) that authorize emission units for a site (or area) subject to the requirements of the Federal Operating Permit (FOP) Program. For emission units identified on Form OP-SUM or Form OP-SUMR, the PBR registration number identified in Section A must also be included on Form OP-SUM or Form OP-SUMR.

The Texas Commission on Environmental Quality (TCEQ) regulated entity reference number (RNXXXXXXXXX), if assigned, and the application area name from Form OP-1 (Site Information Summary) must appear on the header of each page for purposes of identification for the initial submittal. The date of the initial submittal must also be included and should be consistent throughout the application (MM/DD/YYYY). The date on each table should be revised with any updated submittal provided during the review process. Leave the permit number blank only if the initial form submittal accompanies an initial application. If this form is included as part of the permit renewal or revision process, enter the FOP permit number assigned by the TCEQ, the area name from Form OP-1, the date of the renewal or revision submittal, and the regulated entity reference number. The form OP-PBRSUP should be submitted for any PBR authorization updates with each revision and renewal application.

The TCEQ requires that a Core Data Form be submitted on all incoming applications/registrations unless a regulated entity reference number and customer reference number have been issued by the TCEQ and no core data information has changed. If a regulated entity reference number or customer reference number has been issued, then the number must be noted on the request or applicable form. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ website at: www.tceq.texas.gov/permitting/central_registry/guidance.html

Specific:

Permits by Rule (30 TAC Chapter 106) for the Application Area

Emission units authorized under the following PBRs and any corresponding historical (pre-March 1997) SEs are required to be listed in sections A, B, and D:

PBR No.	Name or Subject	PBR No.	Name or Subject
106.124	Pilot Plants	106.373	Refrigeration Systems
106.142	Rock Crushers	106.374	Lime Slaking
106.144	Bulk Mineral Handling	106.375	Aqueous Electrolytic
106.145	Bulk Sand Handling	106.376	Decorative Chrome Plating
106.146	Soil Stabilization Plants	106.392	Thermoset Resin
106.147	Asphalt Concrete Plants	106.393	Convey/Storage Plastic/Rubber
106.150	Asphalt Silos	106.395	Plastic/Rubber Mix (No Solvent)
106.181	Used Oil Combustion Units	106.396	Plastic Rubber Mix (Solvent)
106.182	Ceramic Kilns	106.411	Steam or Dry Cleaning Equipment
106.183	Boilers, Heaters, and Other Combustion Units	106.412	Fuel Dispensing
106.221	Extrusion Presses	106.416	Uranium Recovery

PBR No.	Name or Subject	PBR No.	Name or Subject
106.223	Sawmills	106.417	Ethylene Oxide Sterilizers
106.224	Aerospace	106.418	Printing Presses
106.225	Semiconductor	106.419	Photographic Process Equipment
106.226	Coating Manufacturing	106.433	Surface Coat
106.227	Soldering, Brazing, Welding	106.434	Powder Coating Facility
106.231	Wood Products	106.435	Classic or Antique Auto Restoration Facility
106.245	Ethyl Alcohol Facilities	106.436	Auto Body Refinishing
106.261	Facility; Emission Limits	106.452	Dry Abrasive Cleaning
106.262	Facility; Emission/Distance	106.454	Degreasing
106.263	Repairs and Maintenance	106.472	Organic/Inorganic Liquid Loading and Unloading
106.264	Replacements of Facilities	106.473	Organic Liquid Loading and Unloading
106.265	Hand-Held/Manually Operated Machines	106.474	Hydrochloric Acid Storage
106.281	Feed Milling	106.475	Pressure Tank or Vent to Firebox
106.283	Grain Handling	106.476	Pressure Tank or Vent to Control
106.311	Crucible or Pot Furnace	106.477	Anhydrous NH3 Storage
106.314	Shell Core and Mold Machines	106.478	Storage Tank and Change Service
106.315	Sand or Investment Molds	106.491	Dual Chamber Incinerators
106.320	Miscellaneous Metallic Treatment	106.492	Flares
106.321	Metal Melting and Holding Furnace	106.493	Direct Flame Incinerators
106.322	Furnace to Reclaim Aluminum or Copper	106.494	Pathological Waste Incinerators
106.332	Chlorine Repackaging	106.495	Heat Cleaning Devices
106.351	Salt Water Disposal	106.496	Air Curtain Incinerators
106.352	Oil and Gas Production	106.511	Portable and Emergency Engines and Turbines

PBR No.	Name or Subject	PBR No.	Name or Subject
106.353	Temporary Oil and Gas Facilities	106.512	Stationary Engines and Turbines
106.354	Iron Sponge Gas-Treating Unit	106.513	Natural Gas-Fired Combined Heat and Power Units
106.355	Pipeline Metering, Purging, and Maintenance	106.532	Water/Wastewater Treatment
106.359	Planned Maintenance, Startup, and Shutdown (MSS) at Oil and Gas Handling and Production Facilities	106.533	Water and Soil Remediation
106.371	Cooling Water Units	106.534	Municipal Solid Waste Landfills and Transfer Stations

A. Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

This section provides all PBR authorized emission units for the application area that require registration with the TCEQ.

Unit ID No.:
Enter the identification number (ID No.) for the emission unit authorized by the registered PBR (maximum 10 characters). If listed on Form OP-SUM (Individual Unit Summary), the ID No. should match.

Registration No.:
Enter the registration number provided by TCEQ upon authorization.

PBR No.:
For PBRs (Standard Exemption) authorized before March 14, 1997, enter the selected PBR (Standard Exemption) number, in the space provided (XXX). For PBRs authorized on or after March 14, 1997, enter the selected PBR section number, in the space provided (106.XXX).

Registration Date:
Enter the date (MM/DD/YYY) the authorization was issued to the site. This is the date of the PBR authorization letter.

B. Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

This section provides all PBR authorized emission units for the application area that are claimed (and not registered).

Unit ID No.:
Enter the identification number (ID No.) for the emission unit authorized by the PBR (maximum 10 characters). If listed on Form OP-SUM (Individual Unit Summary), the ID No. should match.

PBR No.:
For PBRs (Standard Exemption) authorized before March 14, 1997, enter the selected PBR (Standard Exemption) number, in the space provided (XXX). For PBRs authorized on or after March 14, 1997, enter the selected PBR section number, in the space provided (106.XXX).

Version No./Date:
For a PBR (Standard Exemption) authorized before March 14, 1997, enter the effective date of the PBR (Standard Exemption) under which the PBR was authorized. For a PBR authorized on or after March 14, 1997, enter the effective date of 30 TAC Chapter 106 under which the PBR was authorized. The 30 TAC Chapter 106 effective date can be found in the section of the PBR (MM/DD/YYYY).

C. Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

This section provides all PBR authorizations for the application area that are not identified in the table above and are considered insignificant sources.

PBR No.:
For PBRs (Standard Exemption) authorized before March 14, 1997, enter the selected PBR (Standard Exemption) number, in the space provided (XXX). For PBRs authorized on or after March 14, 1997, enter the selected PBR section number, in the space provided (106.XXX).

Version No./Date:
For a PBR (Standard Exemption) authorized before March 14, 1997, enter the effective date of the PBR (Standard Exemption) under which the PBR was authorized. For a PBR authorized on or after March 14, 1997, enter the effective date of 30 TAC Chapter 106 under which the PBR was authorized. The 30 TAC Chapter 106 effective date can be found in the section of the PBR (MM/DD/YYYY).

D. Monitoring Requirements for registered and claimed PBRs for the Application Area

This section provides the monitoring and/or recordkeeping requirements sufficient to demonstrate compliance for the registered and claimed PBRs identified in sections A and B.

Unit ID No.:
Enter the identification number (ID No.) for the emission unit authorized by the PBR (maximum 10 characters). If listed on Form OP-SUM (Individual Unit Summary), the ID No. should match.

PBR No.:
For PBRs (Standard Exemption) authorized before March 14, 1997, enter the selected PBR (Standard Exemption) number, in the space provided (XXX). For PBRs authorized on or after March 14, 1997, enter the selected PBR section number, in the space provided (106.XXX).

Version No./Date:
For a PBR (Standard Exemption) authorized before March 14, 1997, enter the effective date of the PBR (Standard Exemption) under which the PBR was authorized. For a PBR authorized on or after March 14, 1997, enter the effective date of 30 TAC Chapter 106 under which the PBR was authorized. The 30 TAC Chapter 106 effective date can be found in the section of the PBR (MM/DD/YYYY).

Monitoring Requirement:
Provide the monitoring and/or recorkeeping requirements used to demonstrate compliance with the applicable PBR conditions, general requirements of 30 TAC §106.4 or general requirements (if any) in effect at the time of the claim, and any certified registration of emission limits as applicable for the emission units. The specificity of the monitoring and/or recordkeeping requirements is required to be consistent with the Periodic Monitoring Guidance and include the following:

- Identify one or more indicators of emission control performance for the control device, or the parameter to be monitored if a control device is not utilized. Indicators may include, but are not limited to, direct or predicted emissions (including visible emissions or opacity), control device parameters, process parameters which are correlated to an emission rate through performance testing or AP-42 emission factors, or recorded finding of inspection and maintenance activities conducted by the owner or operator.
- Identify the frequency of conducting the monitoring. The monitoring frequencies should be consistent with the minimum monitoring frequency found in the applicable PM guidance document. For example, control device parameters may be monitored once per week.
- If applicable, identify the period over which discrete data points will be averaged.

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08-24-2023	O-1626	RN101619179

Unit ID No.	Registration No.	PBR No.	Registration Date
54-22-14	167892	30 TAC 106.4/106.8/106.371	2/7/2022
38-0-0, 68TK208, 68TK211,68TK212	168860	30 TAC 106.261	4/27/2022
3-0-0,4-0-0,5-0-0,6-0-0S,7-0-0,8-0-0,9-0-0, 11-0-0,14-0-0,15-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
17-0-0,19-0-0,20-0-0,25.1-0-0,25.2-0-0,26.1-0-0,26.2-0-0	168576	30 TAC 106.261/30 TAC106.262	3/31/2022
27.1-0-0,27.2-0-0,27.-0-0,28.1-0-0,28.2-0-0,29.1-0-0,29.2-0-0	168576	30TAC 106.261/30TAC106.262	3/31/2022
30-0-0,35-0-0,38-0-0,39.1-0-0, 51-0-0,56-0-0,87-0-0,68.1-0-0,68.2-0-0	168576	30TAC106.261/30TAC106.262	3/31/2022
Petroleum coke handling	43038	30TAC106.261	01/05/2000
Crude Unit Caustic line,25.1-0-0	77156	30TAC106.261/30TAC106.262	11/01/2005
Amine flash drum, 28.1-0-0	82601	30 TAC 106.262	08/01/2007
Crude unloading, 68.1-0-0	95086	30 TAC106.352,30 TAC106.475	04/05/2011
Crude fugitives, 68.1-0-0	160243	30TAC 106.261, 30TAC106.262, 30TAC 106.4	02/24/2020

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08-24-2023	O-1626	RN101619179

Unit ID No.	PBR No.	Version No./Date
25.1-0-0	**77153**	**11/23/2005**
68.1-0-0 (BB unloading)	**114522**	**03/10/2015**
Sweeny Mixed Pentane Project (P-Load, P-Fug)	**116241**	**03/27/2014**
68TK208	**158959**	**10/29/2019**
Railcar diesel loading	**157719**	**07/23/2019**
Gasoline inline blending	**25434**	**12/29/1994**
9-36-4, 9-0-0	**118459**	**05/09/2014**
New cooling tower	**151092**	**03/27/2018**
54-22-14	**167892**	**03/03/2022**
68-95-259, 68-95-260	**151896**	**05/04/2018**
Ammonia injection into EPN 3-95-3	**169961**	**09/30/2022**
LOPA Bypass	**164644**	**03/31/2021**
Loading of Hexane and FGR fugitives (86-0-0)	165952	07/30/2021

Permit By Rule Supplemental Table (Page 3)
Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number

PBR No.	Version No./Date

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1

Date:	8/24/2022
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

For Submissions to EPA *(SOP renewal, minor revision, and significant revision application only)*

Has a copy of this application been submitted (or is being submitted) to EPA?	XYES ❑ NO

I. Application Type

Indicate the type of application:

❑Renewal ✓ Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)

❑ Significant Revision ❑Revision Requesting Prior Approval ❑ Administrative Revision ❑ Response to Reopening

II. Qualification Statement

For SOP Revisions Only	The referenced changes qualify for the marked revision type.	X YES ❑ NO
For GOP Revisions Only	The permitted area continues to qualify for a GOP.	❑YES ❑ NO

III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)

Indicate all pollutants for which the site is a major source based on the site's potential to emit after the change is operated:

Pollutant	VOC	NO_X	SO_2	PM_{10}	CO	Pb	HAPs	Other
Major at the site *(YES/NO)*:	YES	YES	YES	YES	YES	NO	YES	

IV. Reference Only Requirements *(For reference only)*

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?	X YES ❑ NO ❑ N/A

V. Delinquent Fees and Penalties

Notice: This form will not be processed until all delinquent fees and/or penalties owed the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2

Date:	08/24/2022
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

I. Description of Revision

Revision No.	Revision Code	Unit/Group Process			NSR Authorization	Description of change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
1	MS-C				PN5920A	Adding NSPS Subpart J applicability to heaters
1	MS-C				PN18142	Adding NSPS Subpart J applicability to heater
1	MS-C				PN30513	Adding NSPS Subpart J applicability to heaters
1	MS-C				PN49140	Adding NSPS Subpart J applicability to heater
1	MS-C				118699	Adding NSPS Subpart Ja applicability to heater

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3

Date:	12/27/2019
Permit No.:	O-1626
Regulated Entity No.:	RN101619179
Company Name:	Phillips 66 Company

I. Significant Revision *(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)*

A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322?	❑YES X NO
B.	Indicate the alternate language(s) in which public notice is required:	
C.	Will there be a change in air pollutant emissions as a result of the significant revision	❑YES X NO

D. Indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:

Pollutant	Description of the Change in Pollutant Emissions

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date: TBD	Regulated Entity No.: RN101619179	Permit No.:O-1626
Company Name: Phillips Company	Area Name: Sweeny Refining Assets	

Unit/Process						Preconstruction Authorizations	
AI	Revision No.	ID No.	Applicable Form	Name/ Description	CAM	30 TAC Chapter 116/ 30 TAC Chapter 106	Title I
	1	3-36-4	OP-UA50	U3 Reactor Preheater 1		**1486**	
	1	9-36-4	OP-UA50	Crude Charge Heater		**5920A**	**PSD-TX-103M4/N292**
	1	11-36-1	OP-UA50	U11 Prefac Furnace		**30513**	
	1	11-36-5	OP-UA50	U11 HDS Furnace		**30513**	
	1	14-36-3	OP-UA50	U14 Prefac Furnace		**30513**	
	1	14-36-4	OP-UA50	U14 HDS Furnace		**30513**	
	1	20-36-1	OP-UA50	Pentane Reactor Furnace		**49140**	
	1	25.1-36-1	OP-UA50	Crude Charge Heater		**5920A**	**PSD-TX-103M4/N292**
	1	25.2-CS	OP-UA50	Reactor Charge Heater		**5920A**	**PSD-TX-103M4/N292**
	1	26-CS	OP-UA50	Charge Heater		**5920A**	**PSD-TX-103M4/N292**
	1	29.1-36-001	OP-UA50	Vacuum Unit Heater		**5920A**	**PSD-TX-103M4/N292**

Unit/Process						Preconstruction Authorizations	
AI	**Revision No.**	**ID No.**	**Applicable Form**	**Name/ Description**	**CAM**	**30 TAC Chapter 116/ 30 TAC Chapter 106**	**Title I**
	1	29.2-36-CS	OP-UA50	Coker Heater		**5920A**	**PSD-TX-103M4/N292**
	1	30-36-1	OP-UA50	Isostripper Reboiler		**18142**	**N278**
	1	35-36-1	OP-UA50	CCR Furnace		**30513**	
	1	38-36-251	OP-UA50	Reactor Charge Heater		**5920A**	**PSD-TX-103M4/N292**
	1	38-36-252	OP-UA50	Stripper Reboiler		**5920A**	**PSD-TX-103M4/N292**
	1	45-36-1	OP-UA50	ULSG Heater		**118699**	
D	1	15-36-2	OP-UA50	Decoke Furnace		**22086**	
D	1	15-36-3	OP-UA50	Hydrogen Reactor Feed Preheater		**49140**	

Texas Commission on Environmental Quality
Form OP-REQ3 - Instructions

Applicable Requirements Summary

General:

The purpose of Form OP-REQ3 is to allow documentation of the applicability of, or exemption from, requirements for units, groups, and processes and to designate monitoring, recordkeeping, reporting, and testing (MRRT) required for each applicable requirement line (emission limit, standard, equipment specifications, exemption, etc.). The applicant will list units that have at least one applicable requirement. For additional information relating to applicable requirements, please go to the TCEQ web site at
www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Table 1a: Additions

Table 1b: Additions

Table 2a: Deletions

Table 2b: Deletions

Note: Complete Tables 1a and 1b for initial permit issuance or as part of the permit revision process to identify any new requirements.

Note: Complete Tables 2a and 2b for the permit revision process to remove requirements that no longer apply.

Note: If there is only a change to MRRT requirements during a permit revision or update to a permit application, to expedite the process, the change only needs to be reflected on Tables 1b and/or 2b. Tables 1a and/or 2a need not be submitted. Likewise, if there is only a change to a standard during a permit revision or update to a permit application, the change only needs to be reflected on Tables 1a and/or 2a. Tables 1b and/or 2b need not be submitted.

Note: Complete this form for general operating permit (GOP) revisions to establish provisional requirements for authorization to operate when the underlying GOP does not contain the correct citations.

The Company Name and Area Name (from Form OP-1, Section I and X, respectively) must appear in the header block of each page for purposes of identification. The date of submittal must also be included, and should be consistent throughout the application *(MM/DD/YYYY)*. Any subsequent submittals must show the date of revision. Also, enter the Regulated Entity Number (RN*XXXXXXXXXX*) and Permit Number (O*XXXX*), if assigned.

Specific:

Table 1a: Additions and Table 2a: Deletions

Revision No.: Only complete this section for the permit revision process. Enter the revision number identified on Form OP-2 (Application for Permit Revision). This number will link the specific set of applicable requirements to the appropriate permit revision. Please refer to the TCEQ guidance document (Site Operating Permit (SOP) Revision Application Guidance) for additional information regarding the permit revision process.

Unit/Group/Process

ID No.: Enter the identification number (ID No.) for the unit, group, or process (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

Applicable Form: Enter the number of the Unit Attribute (UA) form which contains the specific information for the corresponding emission unit, emission point, or process (i.e., for flares enter "OP-UA7"). The Applicable Form entered on OP-REQ3 must match the applicable form entered on OP-SUM for the emission unit, emission point, or process.

SOP/GOP Index No.: Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-*XXXX*]). For additional information relating to SOP index numbers, please go to the TCEQ web site at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

General operating permit (GOP) applicants should indicate which provisional requirements are being established if there are no GOP index numbers for the requirements (or checklists for MSW landfill or ACI incinerator).

Pollutant: Select one of the following options for the pollutant that is the subject of the applicable requirement. Enter the code on the form.

For criteria pollutants:

Code	Description
CO	Carbon monoxide
NOX	Nitrogen oxides (NO_X)
VOC	Volatile organic compounds
SO_2	Sulfur dioxide
PB	Lead
PM	Particulate matter *(use this code for any regulatory requirement under any Title 40 Code of Federal Regulations Part 60 [40 CFR Part 60] subpart section or Title 30 Texas Administrative Code Chapter 111 [30 TAC Chapter 111] section where the standard, as designated by the TCEQ Requirements Reference Tables (RRT) and flowchart, is for particulate matter)*
PM (OPACITY)	Opacity of particulate matter
HAPS	Hazardous air pollutants (HAPs)

Note: In some rules, there may be requirements for two different pollutants in a single citation. When this occurs, enter the complete citation for the first pollutant, then again on the next line for the second pollutant. Repeat the unit, group, or process identification number on each line. For example; 30 TAC Chapter 117 has several emission limit paragraphs addressing NO_x and CO, or anhydrous ammonia (NH_3). For this example, enter the applicable requirement twice, once for NO_x and once for CO or NH_3.

Applicable Regulatory Requirement

Name: Enter the name of the requirement for which positive applicability is being demonstrated. See examples in the table below (maximum 25 characters).

Standard(s): Enter the citation of the applicable standard(s) of the rule. The RRT and flowcharts may be used to assist with applicability determinations. Multiple lines may be necessary to list all applicable portions of a given rule or requirement (maximum 36 characters).

If the requirement has a future effective date, list the effective date on the form after the citation.

Note: Site-wide requirements should not be listed on Form OP-REQ3. Please refer to the TCEQ guidance documents under "Air Site Operating Permit Guidance (Title V)" for additional information relating to site-wide requirements.

Note: To Title IV acid rain sources; standard(s) for acid rain rules (Title 40 Code of Federal Regulations Parts 72-76 [40 CFR Parts 72-76]) are not required on Form OP-REQ3.

EXAMPLE APPLICABLE REGULATORY REQUIREMENTS*		
Regulation	**Name** *(Input Format)*	**Standard(s)** *(Input Format)*
30 TAC Chapters 111, 112, 113, 115, 117	Chapter 111	§111.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 112	§112.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 113	§113.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 115	§115.*XXX*(*x*)(*yy*)(*zz*)
	Chapter 117	§117.*XXX*(*x*)(*yy*)(*zz*)
40 CFR Part 60, Subparts A-WWW, New Source Performance Standards (NSPS)**	NSPS *XXX*	§60.*XXX*(*x*)(*yy*)(*zz*)
40 CFR Part 61, Subparts A-FF National Emission Standards for Hazardous Air Pollutants (NESHAP)	NESHAP *XX*	§61.*XX*(*x*)(*yy*)(*zz*)
40 CFR Part 63, Subparts A-XXXXXX, NESHAP by source category, including hazardous organic NESHAP (HON)	MACT *XX*	§63.*XXX*(*x*)(*yy*)(*zz*)

* *This list is not intended to be exhaustive*

** *The inclusion of 40 CFR Part 60, Subpart A is only for those requirements contained in 40 CFR § 60.18*

When using the RRT and flowchart to complete Form OP-REQ3, citations for standards and MRRT may be grouped to the level at which everything underneath the citation applies. A grouped citation will be shown in the RRT with a bolded notation **[GD]** or **[GR]** before the citation, with no space in between.

For example, 40 CFR § 63.468(a) states, "Each owner or operator of an existing solvent cleaning machine shall submit an initial notification no later than 8/29/95. This report shall include the information specified in paragraphs (a)(1) through (a)(6) of this section." The reporting column on the RRT will then show "**[GD]** § 63.468(a)."

When entering a citation on Form OP-REQ3 that is shown in the RRT with a bolded notation **[GD]** or **[GR]** before the citation, remove the "D" or "R" from the brackets and show the citation as grouped using the unbolded notation [G]. The reporting citation from the previous example would then be shown as "[G] § 63.468(a)" in the Form OP-REQ3 reporting column.

Table 1b: Additions and Table 2b: Deletions

Revision No.: Only complete this section for the permit revision process. Enter the revision number identified on Form OP-2 (Application for Permit Revision). This number will link the specific set of applicable requirements to the appropriate permit revision. Please refer to the TCEQ guidance document entitled "Site Operating Permit (SOP) Revision Application Guidance" for additional information regarding the permit revision process.

Unit/Group/Process

ID No.: Enter the identification number (ID No.) for the unit, group, or process (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.: Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-*XXXX*]). For additional information relating to SOP index numbers, please go to the TCEQ web site at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

General operating permit (GOP) applicants should indicate which provisional requirements are being established if there are no GOP index numbers for the requirements (or checklists for MSW landfill or ACI incinerator).

Pollutant: Select one of the following options for the pollutant that is the subject of the applicable requirement. Enter the code or pollutant name on the form.

For criteria pollutants:

Code	Description
CO	Carbon monoxide
NOX	Nitrogen oxides (NO_X)
VOC	Volatile organic compounds
SO2	Sulfur dioxide
PB	Lead
PM	Particulate matter *(use this code for any regulatory requirement under any 40 CFR Part 60 subpart sections or 30 TAC Chapter 111 sections where the standard, as designated by the RRT and flowchart, is for particulate matter)*
PM (OPACITY)	Opacity of particulate matter
HAPS	Hazardous air pollutants (HAPs)

Monitoring and Testing Requirements: Enter the citation of the rule requiring monitoring of the relevant unit against the applicable requirement and/or testing in conjunction with the control standard, emission limit, operations of control equipment, or monitoring equipment of this requirement (maximum 36 characters). Use multiple lines if necessary.

Recordkeeping Requirements: Enter the citation of the rule requiring recordkeeping of the relevant unit against the applicable requirement (maximum 36 characters). Use multiple lines if necessary.

Reporting Requirements: Enter the citation of the rule requiring reporting of the relevant unit against the applicable requirement (maximum 36 characters). Use multiple lines if necessary.

Note: Please refer to the "Standards" section of these instructions for information relating to grouping of monitoring, testing, recordkeeping, and reporting citations.

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:8-24-2023	Regulated Entity No.:101619179	Permit No.: O-1626
Company Name: Phillips 66	Area Name: Sweeny Refinery	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
1	11-36-1	OP-UA50	60J11361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	11-36-5	OP-UA50	60J11365	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	14-36-3	OP-UA50	60J14363	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	14-36-4	OP-UA50	60J14364	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	25.1-36-1	OP-UA50	60J251361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	25.2-CS	OP-UA50	60J252CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	26-CS	OP-UA50	60J26CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	29.1-36-001	OP-UA50	60J2913601	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	29.2-36-CS	OP-UA50	60J29236CS	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	30-36-1	OP-UA50	60J30361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	35-36-1	OP-UA50	60J35361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	38-36-251	OP-UA50	60J3836251	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	38-36-252	OP-UA50	60J3836252	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)
1	45-36-1	OP-UA50	60Ja45361	SO2/NOx	NSPS Subpart Ja	40 CFR 60.102a(g)(1) and (g)(2)
1	20-36-1	OP-UA50	60J20361	SO2	NSPS Subpart J	40 CFR 60.104(a)(1)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program

Table 1b: Additions

Date:08-24-2023	Regulated Entity No.: 101619179	Permit No.: O-1626
Company Name: Phillips 66	Area Name: Sweeny Refinery	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	11-36-1	60J11361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	11-36-5	60J11365	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	14-36-3	60J14363	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	14-36-4	60J14364	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	25.1-36-1	60J251361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	20-36-1	60J20361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	25.2-CS	60J252CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	26-CS	60J26CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	29.1-36-001	60J2913601	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	29.2-36-CS	60J29236CS	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	30-36-1	60J30361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	35-36-1	60J35361	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	38-36-251	60J3836251	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	38-36-252	60J3836252	SO2	40 CFR 60.105(a)(4)	40 CFR60.104(e)	40 CFR60.104(e)
1	45-36-1	60Ja45361	SO2&NO2	40CFR60.107a(2), 40CFR60.107a (c)(6)	40 CFR 60.108a(a)&(b)	40 CFR 60.108a(a)&(b), 40 CFR 60.108a(c)(5)

Applicable Requirements Summary
Form OP-REQ3 (Page 3)
Federal Operating Permit Program

Table 2a: Deletions

Date:11-9-2022	**Regulated Entity No.: 101619179**	**Permit No.: O-1626**
Company Name:Phillips 66 Company	**Area Name: Sweeny Refinery**	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)

Applicable Requirements Summary
Form OP-REQ3 (Page 4)
Federal Operating Permit Program

Table 2b: Deletions

Date:	Regulated Entity No.:	Permit No.:
Company Name:	Area Name:	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements

Texas Commission on Environmental Quality

Title V Existing

1626

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	SWEENY REFINERY
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	Highway 35 at FM 524
City	Old Ocean
State	TX
ZIP	77480
County	BRAZORIA
Latitude (N) (##.######)	29.073888
Longitude (W) (-###.######)	95.748611
Primary SIC Code	2911
Secondary SIC Code	
Primary NAICS Code	32411
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN101619179
What is the name of the Regulated Entity (RE)?	SWEENY REFINERY AND PETROCHEMICAL COMPLEX
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	8189 OLD FM 524
City	OLD OCEAN
State	TX
ZIP	77463
County	BRAZORIA
Latitude (N) (##.######)	29.070833
Longitude (W) (-###.######)	-95.752777
Facility NAICS Code	
What is the primary business of this entity?	PETROLEUM REFINING

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN604065912
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Phillips 66 Company
Texas SOS Filing Number	801507995
Federal Tax ID	
State Franchise Tax ID	13716527026
State Sales Tax ID	

Local Tax ID	
DUNS Number	1368265
Number of Employees	
Independently Owned and Operated?	

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	PHILLIPS 66 COMPANY
Prefix	MR
First	WILLIAM
Middle	
Last	STONE
Suffix	
Credentials	
Title	VP SWEENY REFINERY
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	8189 OLD FM 524
Routing (such as Mail Code, Dept., or Attn:)	
City	OLD OCEAN
State	TX
ZIP	77463
Phone (###-###-####)	9794912500
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Bill.L.Stone@p66.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	JIM BARON(PHILLIPS 66 COM...)
Organization Name	PHILLIPS 66 COMPANY
Prefix	MR
First	JIM
Middle	
Last	BARON
Suffix	
Credentials	
Title	OPERATIONS MANAGER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	8189 OLD FM 524

Routing (such as Mail Code, Dept., or Attn:)	
City	OLD OCEAN
State	TX
Zip	77463
Phone (###-###-####)	9794912204
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jim.t.baron@p66.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	VINOD JAINI(PHILLIPS 66 COM...)
Organization Name	PHILLIPS 66 COMPANY
Prefix	MR
First	VINOD
Middle	
Last	JAINI
Suffix	
Credentials	
Title	SENIOR ENVIRONMENTAL ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 866
Routing (such as Mail Code, Dept., or Attn:)	
City	SWEENY
State	TX
ZIP	77480
Phone (###-###-####)	9794912125
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9794912828
E-mail	vinod.k.jaini@p66.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 4 Min 26 Sec
3) Permit Longitude Coordinate:	95 Deg 44 Min 55 Sec
4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Revision Requesting Prior Approval
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No

4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Who will electronically sign this Title V application?	Responsible Official
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

[File Properties]

File Name	OP_1_FOP O-1626 Revision 8-28-23.pdf
Hash	C584086FDC2F1265456EBF283AB5D249CD0E187AE5ECDFC1F33A076B1B85D950
MIME-Type	application/pdf

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name	OP-2 completed.pdf
Hash	4E55672C5BCD6BCD14EFA714CA024C66C9FB646FF9E9F48691F417A70E2419FF
MIME-Type	application/pdf

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

[File Properties]

File Name	OP_REQ3_OP-REQ 3.docx
Hash	D4E53F5A8EB5EFA5ACE0B8CBF7642B666A7E64BA441007B3724B47514AB77CD1
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

[File Properties]

File Name	OP-PBRSUP.pdf
Hash	3A0ADD6423C916E5E4EF68203EF9C2E2B231A8B5713E45A33E04DA682E15DDC9
MIME-Type	application/pdf

Attach OP-SUMR (Individual Unit Summary for Revisions)

[File Properties]

File Name	OP_SUMR_Completed OP-SUMR.pdf
Hash	B80C5DA9D9F88862DB22AB4B7BC6B7E8CADCF60DF2C1DB048FD97A090DBE001B
MIME-Type	application/pdf

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

[File Properties]

File Name	OP-UA50 completed.pdf
Hash	DE0A088043BB8DA116E860509A5D8A2F2EB943B48565403BA0591534C7622BBE
MIME-Type	application/pdf

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Responsible Official for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am William L Stone, the owner of the STEERS account ER098427.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1626.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER OPERATOR Signature: William L Stone OWNER OPERATOR

Account Number:	ER098427
Signature IP Address:	144.46.104.12
Signature Date:	2023-09-26
Signature Hash:	ECCE36651A3A708C3F8C7513FF53438279DBCB80949B765BFAA504425A40D8ED

Form Hash Code at time of Signature:	810263A02C31D584D7D1EE4A54085D0188C8C4D453613E3B7E0F25578301C332

Submission

Reference Number:	The application reference number is 588046
Submitted by:	The application was submitted by ER098427/William L Stone
Submitted Timestamp:	The application was submitted on 2023-09-26 at 09:32:21 CDT
Submitted From:	The application was submitted from IP address 144.46.104.12
Confirmation Number:	The confirmation number is 490745
Steers Version:	The STEERS version is 6.70
Permit Number:	The permit number is 1626

Additional Information

Application Creator: This account was created by Vinod K Jaini