



Formosa Plastics®

Formosa Plastics Corporation, Texas
201 Formosa Drive • P.O. Box 700
Point Comfort, TX 77978
Telephone: (361) 987-7000

February 3, 2025

Electronic Delivery via STEERS
Texas Commission on Environmental Quality
Air Permits Initial Review Team (APIRT) (MC-161)
P. O. Box 13087
Austin, Texas 78711-3087

RE: Formosa Plastics Corporation, Texas
TCEQ Air Quality Account Number: CB-0038-Q
Customer Reference Number: CN600130017
Regulated Entity Number: RN100218973
Specialty PVC Plant Title V Permit Number O3409
Permit Renewal Application

To Whom It May Concern:

Pursuant to 30 TAC §122.241, Formosa Plastics Corporation, Texas (FPC TX) hereby submits certification of changes to the permit renewal application for the Specialty PVC Plant Title V Operating Permit Number O3409 at our Calhoun County, Point Comfort complex.

Please find attached the attached OP-CRO1 form certifying the changes from May 02, 2024 through January 09, 2025.

Should you have any questions, please contact Mrs. LeAnn Usoff at LeAnnU@ftpc.fpcusa.com.

Sincerely,

Mike Rivet
Assistant Vice President / General Manager
Formosa Plastics Corporation, Texas

Enclosures

Specialty PVC Plant Title V Permit O3409

Permit Renewal Application – Certification of Changes (May 2024 - January 2025)

CC: Electronic Delivery via STEERS
Air Program Manager, Region 14
Texas Commission on Environmental Quality
NRC Building, Ste. 1200
6300 Ocean Drive, Unit 5839
Corpus Christi, Texas 78412-5839
(Copy of the Application)

EPA Region VI Office

Electronic Delivery: R6AirPermitsTX@epa.gov

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application 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: 100218973
CN: 600130017
Account No.: CB0038Q
Permit No.: O3409
Project No.: 36586
Area Name: Specialty PVC Plant
Company Name: Formosa Plastics Corporation Texas
II. Certification Type <i>(Please mark appropriate box)</i>
<input type="checkbox"/> Responsible Official Representative <input checked="" type="checkbox"/> Duly Authorized
III. Submittal Type <i>(Please mark appropriate box) (Only one response can be accepted per form)</i>
<input type="checkbox"/> SOP/TOP Initial Permit Application <input type="checkbox"/> Permit Revision, Renewal, or Reopening
<input type="checkbox"/> GOP Initial Permit Application <input checked="" type="checkbox"/> Update to Permit Application
<input type="checkbox"/> Other: _____

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth
This certification does not extend to information which is designated by TCEQ as information for reference only.
I, <u>Mike Rivet</u> certify that I am the <u>Duly Authorized Representative (DAR)</u> <div style="display: flex; justify-content: space-between; margin-top: 5px;"><i>(Certifier Name printed or typed)</i><i>(RO or DAR)</i></div>
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: <i>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).</i>
Time Period: From <u>05/02/2024</u> to <u>01/09/2025</u> <div style="display: flex; justify-content: space-between; margin-top: 5px;"><i>(Start Date)</i><i>(End Date)</i></div>
Specific Dates: _____ <div style="display: flex; justify-content: space-around; margin-top: 5px;"><i>(Date 1)</i><i>(Date 2)</i><i>(Date 3)</i><i>(Date 4)</i></div>
_____ <div style="display: flex; justify-content: space-around; margin-top: 5px;"><i>(Date 5)</i><i>(Date 6)</i></div>
Signature: <u>SIGNED IN STEERS</u> Signature Date: _____
Title: <u>Assistant Vice President / General Manager</u>

Texas Commission on Environmental Quality

Title V Existing

3409

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	SPECIALTY PVC PLANT
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	201 Formosa Dr
City	Point Comfort
State	TX
ZIP	77978
County	CALHOUN
Latitude (N) (##.#####)	28.688888
Longitude (W) (-###.#####)	96.547222
Primary SIC Code	2821
Secondary SIC Code	
Primary NAICS Code	325110
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100218973
What is the name of the Regulated Entity (RE)?	FORMOSA POINT COMFORT PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	201 FORMOSA DR
City	POINT COMFORT
State	TX
ZIP	77978
County	CALHOUN
Latitude (N) (##.#####)	28.6888
Longitude (W) (-###.#####)	-96.5472
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL CHEMICAL MANUFACTURING PLANT

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN600130017
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Formosa Plastics Corporation, Texas
Texas SOS Filing Number	5107506
Federal Tax ID	222355464
State Franchise Tax ID	12223554648
State Sales Tax ID	

Local Tax ID	
DUNS Number	106238165
Number of Employees	501+
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:

Organization Name	FORMOSA PLASTICS CORPORATION TEXAS
Prefix	MR
First	KEN
Middle	
Last	MOUNGER
Suffix	
Credentials	
Title	EXECUTIVE VICE PRESIDENT
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	9 PEACH TREE HILL RD
Routing (such as Mail Code, Dept., or Attn:)	
City	LIVINGSTON
State	NJ
ZIP	07039
Phone (###-###-####)	9737167205
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9739948005
E-mail	leannu@ftpc.fpcusa.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application

Select existing DAR contact or enter a new contact.

Organization Name	MIKE RIVET(FORMOSA PLASTIC...)
Prefix	FORMOSA PLASTICS CORPORATION TEXAS
First	MR
Middle	MIKE
Last	RIVET
Suffix	
Credentials	
Title	ASSISTANT VICE PRESIDENT/GENERAL MANAGER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

Routing (such as Mail Code, Dept., or Attn:)

City

State

Zip

Phone (###-###-####)

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

PO BOX 700

POINT COMFORT

TX

77978

3619877000

tlasater@ftpc.fpcusa.com

Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.

Organization Name

Prefix

First

Middle

Last

Suffix

Credentials

Title

Enter new address or copy one from list:

Mailing Address

Address Type

Mailing Address (include Suite or Bldg. here, if applicable)

Routing (such as Mail Code, Dept., or Attn:)

City

State

ZIP

Phone (###-###-####)

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

LEANN USOFF(FORMOSA PLASTIC...)

FORMOSA PLASTICS CORPORATION
TEXAS

MS

LEANN

USOFF

AIR PERMITTING ASSISTANT MANAGER

Domestic

PO BOX 700

POINT COMFORT

TX

77978

3619209401

leAnnu@ftpc.fpcusa.com

Title V General Information - Existing

1) Permit Type:

2) Permit Latitude Coordinate:

3) Permit Longitude Coordinate:

4) Is this submittal a new application or an update to an existing application?

4.1. Select the permit/project number for which this update should be applied.

SOP

28 Deg 41 Min 20 Sec

96 Deg 32 Min 50 Sec

Update

3409-36586

5) Who will electronically sign this Title V application?

Duly Authorized Representative

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)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

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 Void Request Form

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name

SPVC+Title+V+Renewal+(OP-CR01+changes)-02.03.2025.signed.pdf

Hash

E3163105C8AD289706CCC70964FB2151FD1BFB6FFE083A206567F459639916EF

MIME-Type

application/pdf

An additional space to attach any other necessary information needed to complete the permit.

Certification

I certify that I am the Duly Authorized Representative 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 Mike Rivet, the owner of the STEERS account ER093335.

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 3409.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Mike Rivet OWNER OPERATOR

Account Number:	ER093335
Signature IP Address:	24.116.223.222
Signature Date:	2025-02-03
Signature Hash:	1D96686854B12E0F5FA241401E07955B06BD2257800F82BF7A872089D866131A
Form Hash Code at time of Signature:	A0ED111B0630638BEA6082D406C2A5D913A2A85C048926521F1A064CCC893E67

Submission

Reference Number:	The application reference number is 752959
Submitted by:	The application was submitted by ER093335/Mike Rivet
Submitted Timestamp:	The application was submitted on 2025-02-03 at 14:41:10 CST
Submitted From:	The application was submitted from IP address 24.116.223.222
Confirmation Number:	The confirmation number is 625532
Steers Version:	The STEERS version is 6.86
Permit Number:	The permit number is 3409

Additional Information

Application Creator: This account was created by Leann Usoff

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Thursday, January 9, 2025 9:37:26 AM
Attachments: [image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image988110.png](#)
[image331550.png](#)
[OP-REQ1 Page 17.pdf](#)

Vasant

Please find attached the updated OP-REQ1 page.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation

Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: January 09, 2025 9:25 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Regarding deleting terms and conditions related to NSPS Subpart A – there terms are included in the WDP since you answered YES to question VI-A.1 in OP-REQ1 form (see below). You will need to provide a NO response to above question to remove the terms and conditions related to NSPS Subpart A by sending the appropriate page of the OP-REQ1 form (include date, permit number and RN info). Appreciate your response by noon.

Thanks,

Vasant

>>>>>

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards	
A. Applicability	
◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. <i>If the response to Question VI.A.1 is "NO," go to Section VII.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, January 9, 2025 9:02 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached the WDP with a few comments. Because of file size issues and email, I removed the AMOC from this version. Formosa still wants the AMOC in the permit, so please do not remove it from the final version.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M [512-417-7010](tel:512-417-7010)

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: January 09, 2025 7:37 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Appreciate your response by noon today, January 9, 2025.

Thanks,

Vasant

From: Vasant Chaphekar

Sent: Monday, December 30, 2024 8:51 AM

To: 'Conor Braman' <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Attached is revised WDP (version 12302024). Please review and submit any comments by January 8, 2025 or earlier. Since this is a follow-up review to the previously submitted and reviewed WDP, only comments concerning changes since the last WDP or previously submitted comments that remain unaddressed may be considered by TCEQ.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, December 19, 2024 9:06 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached an updated OP-PBRSUP form adding the 106.263 PBR onto it. In regards to the APD-CERT, it

was a certification for increasing fugitive emissions from the chiller under PBR 106.371. It increased emissions from that chiller, but since it is a PBR it does not change the issuance date for the NSR permit. The NSR permit date is still 6/12/2019. We have attached an updated OP-MON form and a recently issued Title V permit showing the desired monitoring condition for visible emissions from the cooling tower.

We have also left comments in the attached WDP; it looks like none of the comments from the previous round of comments were incorporated. It would be helpful for us if those comments that you're ok accepting were updated in track changes, so we know they're being addressed and that we do not have to submit the same comments on subsequent comment submittals.

Please let us know if you have any other questions or comments, and have a great day. Also, please note that due to the holidays the next two weeks there will be several people on vacation, so we will not be able to respond to further updates until after the new year.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: December 17, 2024 8:42 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

FYI - It appears that the APD-CERT submittal is for SPVC-RXFUG EPN (description: VC RX chiller system) authorized under PBR 106.371 (see attached). The reference to NSR permit 76503 on page 2 of the TCEQ issued letter dated November 9, 2021 which references the APD-CERT submittal (see attached) is not clear.

Thanks,

Vasant

From: Vasant Chaphekar

Sent: Monday, December 16, 2024 4:20 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Attached is a revised draft of the WDP (version 1216/2024). It incorporates suggested changes except for a few items noted below.

Items for review:

1. PBR entries in OP-PBRSUP and OP-REQ1 are not matched. E.g., PBR 106.263 is included in OP-REQ1 but not included in OP-PBRSUP. Please advise.
2. NSR 76305 - updated permit date is requested? Last permit action on NSR 76305 was on 06/12/2019. Dates on NSR documents such as permit face, conditions, reflect the 06/12/2019 date. APD-CERT was submitted to the Rules and Registration section on 11/09/2021. However, APD-CERT applies to sitewide emissions (and not limited to NSR 76305 – this permit has its own MAERT). APD-CERT submittal did not result in the issuance of NSR documents such as permit face, conditions having a new issuance date. Therefore, no changes are being made to the NSR 76305 issuance date. Let me know if you disagree.
3. Also, as noted earlier, no changes are being made to the PM requirements for CT-1 unit. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Appreciate your response by by COB, Friday, 12/20/2024 or earlier.

Thanks,
Vasant

From: Vasant Chaphekar

Sent: Friday, December 13, 2024 11:29 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

I have received your comments to the WDP. I will review them and generate a revised WDP. To keep project schedule, we will need to go to public notice on this project in January 2025. Your cooperation would be appreciated.

However, as a FYI regarding changing monitoring frequency of CT-1 cooling tower from weekly to annual – I don't think TCEQ would accept this change since you have selected PM-P-001 as the PM option. You will need to submit a new OP-MON request for case-by-case PM for the unit to incorporate the suggested changes. The case-by-case PM request will need to be reviewed/approved by a PM expert which may delay the project. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, December 13, 2024 10:03 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached an updated WDP with comments from Formosa. Also, Formosa would like to add a few things to the permit shield around 115 non-applicability for the OP-UA15 sources. Please find attached an OP-REQ2 and OP-2 for that request; no change to characteristics from previous representations, just want to add the permit shield for them. Thank you for your help, and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: December 09, 2024 1:31 PM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Thx for your response. I have conducted a technical review of your renewal application for your Title V Permit (O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant). An electronic copy of a Working Draft Permit (WDP) is attached for your review/comments. The WDP contains TCEQ's determination of the applicable state/federal requirements based on the information submitted in your application, and any updates provided thereafter. Appreciate if you would acknowledge receipt of this email.

Please review the WDP (version 12092024) and submit any comments by COB, Friday, 12/20/2024 or earlier. You must submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please review the "SOP Technical Review Fact Sheet" located at https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf. This guidance contains important information regarding WDP review and comment procedures. Note that a Certification by Responsible Official (Form OP-CRO1) for any as yet uncertified submittals, including the WDP response, is required to be submitted (via STEERS or as a hard copy). I will advise you at a later date regarding the specifics of the OP-CRO1 form submittal. Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>
Sent: Friday, December 6, 2024 11:29 AM
To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning and thank you for your follow up questions. We have answered them in line below. Outside of that, two engines and associated diesel tanks (EG-03 and EG-04, and T-D03 and T-D04) have been taken out of service and removed from the NSR permit, and do not need to be added to the T5 permit. We have updated the forms (UA2, UA3, and SUMR) accordingly to no longer reference them.

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111 – **OP-MON and UA15 updated and attached, dated for today.**
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form. **Updated UA2 attached, also no longer referencing EG-03 and EG-04 as noted above.**
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction

authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15. **OP-SUMR and OP-2 updated to include those units, and strike out the EG-03, EG-04, T-D03, and T-D04 requests as noted above.**

4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well. **OP-SUMR updated to include the PBRSUP units.**

Please let us know if you have any other questions or comments and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:47 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

OK. Revised due date is 12/6/2024 or earlier. Thx.

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 3:44 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. We will start assembling these responses, but given the holidays and various people on vacation for it, can we have until Friday 12/6/24?

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:41 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Following info is requested (please include/add dates on all forms submitted):

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form.
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15.
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well.

Appreciate your response by Wed., 12/4/24 or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 9:54 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant,

Good morning. We sent a follow up addressing those applicability issues on September 5, see attached. We think that covered it all; please review and let us know if you need anything additional. Thanks and have a great day!

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 8:32 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I am checking to see if you are "still looking into a few applicability issues" or all applicability issues have been resolved and I can proceed with the preparation of the working draft of the permit.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, September 5, 2024 2:22 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHH control requirements, they are not subject to MACT HHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHH, and this vessel opening operation is covered under the unit ID SPECPVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115 rules as well. See attached OP-UA15 documenting the exemption.
- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHH, but these vessel opening operations are covered under the unit ID SPECPVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?
9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no applicable state or federal requirements.
11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.

4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager

Environmental Dept.

Formosa Plastics Corporation, Texas

Phone: 361-987-7463 Mobile: 361-920-9401



From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBRSUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of compliance for compliance with applicable emission limits for registered PBRs?
3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711

Ph: (512) 239-1341
Fax: (512) 239-1400
Vasant.Chaphekar@tceq.texas.gov
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From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Thursday, January 9, 2025 9:02:37 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image444274.png](#)
[image369432.png](#)
[WDP_03409_36586_Review_Draft_12302024 Formosa Comments.docx](#)

Vasant

Good morning. Please find attached the WDP with a few comments. Because of file size issues and email, I removed the AMOC from this version. Formosa still wants the AMOC in the permit, so please do not remove it from the final version.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: January 09, 2025 7:37 AM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,
Appreciate your response by noon today, January 9, 2025.
Thanks,
Vasant

From: Vasant Chaphekar
Sent: Monday, December 30, 2024 8:51 AM
To: 'Conor Braman' <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,
Attached is revised WDP (version 12302024). Please review and submit any comments by January 8, 2025 or earlier. Since this is a follow-up review to the previously submitted and reviewed WDP, only comments concerning changes since the last WDP or previously submitted comments that remain unaddressed may be considered by TCEQ.
Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>
Sent: Thursday, December 19, 2024 9:06 AM
To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached an updated OP-PBRSUP form adding the 106.263 PBR onto it. In regards to the APD-CERT, it was a certification for increasing fugitive emissions from the chiller under PBR 106.371. It increased emissions from that chiller, but since it is a PBR it does not change the issuance date for the NSR permit. The NSR permit date is still 6/12/2019. We have attached an updated OP-MON form and a recently issued Title V permit showing the desired monitoring condition for visible emissions from the cooling tower.

We have also left comments in the attached WDP; it looks like none of the comments from the previous round of comments were incorporated. It would be helpful for us if those comments that you're ok accepting were updated in track changes, so we know they're being addressed and that we do not have to submit the same comments on subsequent comment submittals.

Please let us know if you have any other questions or comments, and have a great day. Also, please note that due to the holidays the next two weeks there will be several people on vacation, so we will not be able to respond to further updates until after the new year.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: December 17, 2024 8:42 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

FYI - It appears that the APD-CERT submittal is for SPVC-RXFUG EPN (description: VC RX chiller system) authorized under PBR 106.371 (see attached). The reference to NSR permit 76503 on page 2 of the TCEQ issued letter dated November 9, 2021 which references the APD-CERT submittal (see attached) is not clear.

Thanks,

Vasant

From: Vasant Chaphekar

Sent: Monday, December 16, 2024 4:20 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Attached is a revised draft of the WDP (version 1216/2024). It incorporates suggested changes except for a few items noted below.

Items for review:

1. PBR entries in OP-PBRSUP and OP-REQ1 are not matched. E.g., PBR 106.263 is included in OP-REQ1 but not included in OP-PBRSUP. Please advise.
2. NSR 76305 - updated permit date is requested? Last permit action on NSR 76305 was on 06/12/2019. Dates on NSR documents such as permit face, conditions, reflect the 06/12/2019 date. APD-CERT was submitted to the Rules and Registration section on 11/09/2021. However, APD-CERT applies to sitewide emissions (and not limited to NSR 76305 – this permit has its own MAERT). APD-CERT submittal did not result in the issuance of NSR documents such as permit face, conditions having a new issuance date. Therefore, no changes are being made to the NSR 76305 issuance date. Let me know if you disagree.
3. Also, as noted earlier, no changes are being made to the PM requirements for CT-1 unit. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Appreciate your response by by COB, Friday, 12/20/2024 or earlier.

Thanks,
Vasant

From: Vasant Chaphekar

Sent: Friday, December 13, 2024 11:29 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

I have received your comments to the WDP. I will review them and generate a revised WDP. To keep project schedule, we will need to go to public notice on this project in January 2025. Your cooperation would be appreciated.

However, as a FYI regarding changing monitoring frequency of CT-1 cooling tower from weekly to annual – I don't think TCEQ would accept this change since you have selected PM-P-001 as the PM option. You will need to submit a new OP-MON request for case-by-case PM for the unit to incorporate the suggested changes. The case-by-case PM request will need to be reviewed/approved by a PM expert which may delay the project. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, December 13, 2024 10:03 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached an updated WDP with comments from Formosa. Also, Formosa would like to add a few things to the permit shield around 115 non-applicability for the OP-UA15 sources. Please find attached an OP-REQ2 and OP-2 for that request; no change to characteristics from previous representations, just want to add the permit shield for them. Thank you for your help, and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: December 09, 2024 1:31 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Thx for your response. I have conducted a technical review of your renewal application for your Title V Permit (O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant). An electronic copy of a Working Draft Permit (WDP) is attached for your review/comments. The WDP contains TCEQ's determination of the applicable state/federal requirements based on the information submitted in your application, and any updates provided thereafter. Appreciate if you would acknowledge receipt of this email.

Please review the WDP (version 12092024) and submit any comments by COB, Friday, 12/20/2024 or earlier. You must submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please review the "SOP Technical Review Fact Sheet" located at https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf. This guidance contains important information regarding WDP review and comment procedures. Note that a Certification by Responsible Official (Form OP-CRO1) for any as yet uncertified submittals, including the WDP response, is required to be submitted (via STEERS or as a hard copy). I will advise you at a later date regarding the specifics of the OP-CRO1 form submittal. Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, December 6, 2024 11:29 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning and thank you for your follow up questions. We have answered them in line below. Outside of that, two engines and associated diesel tanks (EG-03 and EG-04, and T-D03 and T-D04) have been taken out of service and removed from the NSR permit, and do not need to be added to the T5 permit. We have updated the forms (UA2, UA3, and SUMR) accordingly to no longer reference them.

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111 – **OP-MON and UA15 updated and attached, dated for today.**
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form. **Updated UA2 attached, also no longer referencing EG-03 and EG-04 as noted above.**
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15. **OP-SUMR and OP-2 updated to include those units, and strike out the EG-03, EG-04, T-D03, and T-D04 requests as noted above.**
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well. **OP-SUMR updated to include the PBRSUP units.**

Please let us know if you have any other questions or comments and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:47 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

OK. Revised due date is 12/6/2024 or earlier. Thx.

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 3:44 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. We will start assembling these responses, but given the holidays and various people on vacation for it, can we have until Friday 12/6/24?

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:41 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Following info is requested (please include/add dates on all forms submitted):

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form.
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15.
4. Do you want to include all units listed in OP-PBR SUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well.

Appreciate your response by Wed., 12/4/24 or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 9:54 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant,

Good morning. We sent a follow up addressing those applicability issues on September 5, see attached. We think that covered it all; please review and let us know if you need anything additional. Thanks and have a great day!

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 8:32 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I am checking to see if you are "still looking into a few applicability issues" or all applicability issues have been resolved and I can proceed with the preparation of the working draft of the permit.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, September 5, 2024 2:22 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHHH control requirements, they are not subject to MACT HHHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHHH, and this vessel opening operation is covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115 rules as well. See attached OP-UA15 documenting the exemption.
- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHHH, but these vessel opening operations are covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M [512-417-7010](tel:512-417-7010)

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?
9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010
E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: July 10, 2024 9:00 AM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no applicable state or federal requirements.
11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>
Sent: Monday, May 20, 2024 10:26 AM
To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager
Environmental Dept.
Formosa Plastics Corporation, Texas
Phone: 361-987-7463 Mobile: 361-920-9401



From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBRSUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of compliance for compliance with applicable emission limits for registered PBRs?
3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or

permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division

Texas Commission on Environmental Quality

P.O. Box 13087, MC 163

Austin, TX 78711

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FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Formosa Plastics Corporation, Texas

AUTHORIZING THE OPERATION OF
Formosa Point Comfort Plant
Specialty PVC Plant
Petrochemical Manufacturing

LOCATED AT
Calhoun County, Texas
Latitude 28° 41' 20" Longitude 96° 32' 50"
Regulated Entity Number: RN100218973

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: O3409 Issuance Date: _____

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 HHHHHHH and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, §§ 113.1555 and 113.1090 which respectively incorporate the 40 CFR Part 63 Subparts by reference.

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. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), 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:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities 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 air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet 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.

- (4) 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)(7) and (a)(7)(A).
 - (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)(7)(B) 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. 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.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. 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)
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(c)(1).
5. 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)
6. 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(c)(2) (relating to Standards: General)
 - C. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - D. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - E. 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)
 - F. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - G. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - H. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - I. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
7. 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.
8. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

9. 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

10. 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 terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated December 20, 2024 in the application for project 36586), 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
11. 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.
12. 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).

Compliance Requirements

13. 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.

14. 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

15. 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

16. 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.

Alternative Requirements

17. 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 TCEQ Executive Director, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

18. 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)

19. 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

Alternative Requirement

Applicable Requirements Summary

Unit Summary	12
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Applicable Requirements Summary	13
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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
CT-01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EG-01	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EG-02	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FUG-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
I-01/I-02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-03	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-05	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SPEC PVC	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
TF-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	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)
CT-01	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
EG-01	EU	63ZZZZ-1	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)
EG-02	EU	63ZZZZ-1	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)
FUG-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ §63.11915(a) § §63.1022(a) § §63.1022(b) § §63.1022(c) § §63.1022(d) § §63.1023(a)(1)(i) § §63.1023(a)(1)(ii) § §63.1023(a)(1)(iii)	For equipment in HAP service (as defined in §63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in	None	§ §63.1038(a) § §63.1038(b)(2) § §63.1038(b)(3) § §63.1038(b)(6) § §63.1038(b)(7) § §63.1038(c)(1)(i) § §63.1038(c)(2) § §63.1038(c)(3)	§ §63.1039(a)(1)(i) § §63.1039(a)(1)(ii) § §63.1039(a)(1)(iii) § §63.1039(b)(1)(i) § §63.1039(b)(1)(ii) § §63.1039(b)(1)(iii) § §63.1039(b)(1)(iv) § §63.1039(b)(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)
					§ 63.1023(a)(1)(iv) § 63.1023(a)(2) § 63.1023(b)(1) § 63.1023(b)(2)(i) § 63.1023(b)(3) § 63.1023(b)(4) § 63.1023(b)(5) § 63.1023(b)(6) § 63.1023(c) § 63.1023(d) § 63.1023(e) § 63.1024(a) § 63.1024(c) § 63.1024(d) § 63.1024(e) § 63.1024(f) § 63.1025(b)(1) § 63.1025(b)(2) § 63.1025(b)(3)(ii) § 63.1025(b)(3)(vi) § 63.1025(c) § 63.1025(d) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1027(a) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(b)(3)(v) § 63.1027(d) § 63.1027(e)(1) § 63.1027(e)(2) § 63.1029(a) § 63.1029(b) § 63.1029(c) § 63.1030(a) § 63.1030(b) § 63.1030(c) § 63.1032(a)	subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart UU of this part.		§ 63.1038(c)(4) § 63.1038(c)(5) § 63.11985(a)(2) § 63.11985(a)(9)(ii) § 63.11985(b)(2) § 63.11985(c)(7)	§ 63.1039(b)(4) § 63.1039(b)(8) § 63.11990(a) § 63.11990(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)
					§ 63.1032(b) § 63.1032(c)(1) § 63.1032(c)(5) § 63.1032(d) § 63.11915(b) § 63.11915(c)(1) § 63.11915(c)(2)				
I-01/I-02	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(A)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2)	None
LPV-03	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
LPV-05	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
SPEC PVC	PRO	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ 63.11880(a) § 63.11880(b) § 63.11880(c) § 63.11885 § 63.11890 § 63.11895 § 63.11896 § 63.11900(a) § 63.11900(b) § 63.11900(e) § 63.11905 § 63.11910(a) § 63.11910(b) § 63.11910(c) § 63.11925(a) § 63.11925(b) § 63.11930(a) § 63.11930(b) § 63.11930(c)(2) § 63.11930(d)(1) § 63.11930(d)(3) § 63.11930(e) § 63.11930(f) § § 63.11930(g)(1)(ii) § 63.11930(g)(2) § 63.11930(g)(3) § 63.11930(g)(4) § 63.11930(g)(5) § 63.11930(h) § 63.11955(a) § 63.11955(b) § 63.11955(c) § 63.11955(e) § 63.12000 § 63.12005	You must comply with each emission limit and standard specified in Table 1 to this subpart that applies to your existing affected source, and you must comply with each emission limit and standard specified in Table 2 to this subpart that applies to your new affected source.	§ 63.11900(a) § 63.11900(b) § 63.11900(e) § 63.11905 § 63.11910(a) § 63.11910(c) § 63.11920(a)(1)(i) § 63.11920(a)(3) § 63.11920(a)(4)(i) § 63.11920(c) § 63.11920(d) § 63.11920(e) § 63.11920(f) § 63.11920(g) § 63.11920(h) § 63.11925(c) § 63.11925(d) § 63.11925(e)(1) § 63.11925(e)(2) § 63.11925(e)(4) § 63.11925(e)(5) § 63.11925(f) § § 63.11925(g)(2)(iv) § 63.11925(h) § 63.11935(a) § 63.11935(c) § 63.11935(d) § 63.11935(e) § 63.11940(b)(1) § 63.11940(c)(2)(i) § 63.11940(c)(3)(i) § 63.11945(a) § 63.11945(b) § 63.11945(c) § 63.11956 § 63.11960	§ 63.11990 § 63.11995	§ 63.11890(c)(2) § 63.11985(a) § 63.11985(b) § 63.11985(c)(1) § 63.11985(c)(7) § 63.11985(c)(9)
TF-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart	§ 63.11915(a) § 63.1020	For equipment in HAP service (as defined in	None	§ 63.1038(a) § 63.1038(b)(2)	§ 63.1039(a)(1)(i) § 63.1039(a)(1)(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)
				HHHHHHH	§ 63.1022(a) § 63.1022(a)(1)(i) § 63.1022(a)(1)(ii) § 63.1022(a)(1)(iii) § 63.1022(a)(1)(iv) § 63.1022(b) § 63.1022(c) § 63.1022(d) § 63.1023(a)(2) § 63.1023(b)(1) § 63.1023(b)(2)(i) § 63.1023(b)(3) § 63.1023(b)(4) § 63.1023(b)(5) § 63.1023(b)(6) § 63.1023(c) § 63.1023(d) § 63.1023(e) § 63.1024(a) § 63.1024(c) § 63.1024(d) § 63.1024(e) § 63.1024(f) § 63.1025(a)(1) § 63.1025(b)(1) § 63.1025(b)(2) § 63.1025(b)(3)(ii) § 63.1025(b)(3)(vi) § 63.1025(c) § 63.1025(d) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1027(a) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(b)(3)(v) § 63.1027(d) § 63.1027(e)(1)	§63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart UU of this part.		§ 63.1038(b)(3) § 63.1038(b)(6) § 63.1038(b)(7) § 63.1038(c)(1)(i) § 63.1038(c)(2) § 63.1038(c)(3) § 63.1038(c)(4) § 63.1038(c)(5) § 63.11985(a)(2) § 63.11985(a)(9)(ii) § 63.11985(b)(2) § 63.11985(c)(7)	§ 63.1039(a)(1)(iii) § 63.1039(b)(1)(i) § 63.1039(b)(1)(ii) § 63.1039(b)(1)(iii) § 63.1039(b)(1)(iv) § 63.1039(b)(2) § 63.1039(b)(4) § 63.1039(b)(8) § 63.11990(a) § 63.11990(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)
					§ §63.1027(e)(2) § §63.1030(a) § §63.1030(b) § §63.1030(c) § §63.1030(d) § §63.1030(e) § §63.1032(a) § §63.1032(b) § §63.1032(c)(1) § §63.1032(c)(5) § §63.1032(d) § §63.11915(b) § §63.11915(c)(1) § §63.11915(c)(2)				

Additional Monitoring Requirements

Periodic Monitoring Summary	20
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Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CT-01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per year	
Averaging Period: N.A.	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Permit Shield

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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
CT-01	N/A	40 CFR Part 63, Subpart Q	Cooling tower not operated with chromium based water treatment chemicals.
BD-B04	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
BD-B04	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B08	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
DD-B08	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B10	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
DD-B10	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
I-01/I-02	N/A	40 CFR Part 60, Subpart Db	These incinerators are not steam generators.
I-01/I-02	N/A	40 CFR Part 60, Subpart E	These incinerators are not furnaces used in the

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
			process of burning solid waste.
LPV-03	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a vent gas stream that has a combined weight of the VOC emissions that are less than 100 pounds in any continuous 24-hour period;
LPV-05	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a vent gas stream that has a combined weight of the VOC emissions that are less than 100 pounds in any continuous 24-hour period;
SPEC PVC	N/A	40 CFR Part 63, Subpart F	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart G	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart H	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
T-D01	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
T-D02	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.

New Source Review Authorization References

New Source Review Authorization References	25
New Source Review Authorization References by Emission Unit	26

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.: PSDTX1058	Issuance Date: 06/12/2019
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.: 76305	Issuance Date: 06/12/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 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**
CT-01	COOLING TOWER NO. 1	76305, PSDTX1058
D2REC	POWDER RECYCLE SYSTEM	106.393/09/04/2000
BD-B04	TRAIN 2 DRYER	76305, PSDTX1058
DD-B08	TRAIN 1A DRYER	76305, PSDTX1058
DD-B10	TRAIN 1B DRYER	76305, PSDTX1058
EF-604A/B	WAREHOUSE BAG FILTER	106.393/09/04/2000
EF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
EG-01	GENERATOR 1	76305, PSDTX1058
EG-02	GENERATOR 2	76305, PSDTX1058
FUG-01	PROCESS AREA PIPING EQUIPMENT	76305, PSDTX1058
I-01/I-02	INCINERATORS/SCRUBBERS	76305, PSDTX1058
LPV-03	LOW PRESSURE VENT TRAINS 1 AND 2 DOWNSTREAM LOSSES	76305, PSDTX1058
LPV-05	LOW PRESSURE VENT TRAINS 1 AND 2 ADDITIVE BUILDING	76305, PSDTX1058
SF-604	WAREHOUSE BAG FILTER	106.393/09/04/2000
SF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
SPEC PVC	SPECIALTY PVC PLANT	76305, PSDTX1058
SPVC-RXFUG	COOLING WATER FUGITIVES	106.371/09/04/2000
SPVCMSS	SPECIALTY PVC PLANT MSS EMISSIONS	106.263/11/01/2001
T-D01	DIESEL STORAGE TANK	76305, PSDTX1058
T-D02	DIESEL STORAGE TANK	76305, PSDTX1058
TF-01	TANK FARM PIPING EQUIPMENT	76305, PSDTX1058

**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.

Alternative Requirement

Alternative Requirement..... 28

Appendix A

Acronym List 48

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 ₂ S	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 50

Major NSR Summary Table

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
I-01 and I-02	Incinerator Scrubbers (The TPY rate is for both scrubber stacks combined. The lb/hr rate is for each individual EPN)	VOC	0.54	2.39	11, 12, 13, 14, 15, 16, 17, 24, 40, 45	11, 12, 13, 14, 15, 16, 17, 24, 32, 37, 39, 40, 45	14, 17, 24, 32
		NO _x	14.19	62.15			
		CO	2.00	8.75			
		PM	0.02	0.09			
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
		SO ₂	0.01	0.01			
		HCl	0.26	1.14			
		Cl ₂	0.41	2.22			
		VCM	0.49	2.15			
		VAM	0.03	0.12			
		NH ₃	0.12	0.53			
DD-B08	Train 1A Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B08	Train 1A Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
DD-B10	Train 1B Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B10	Train 1B Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
BD-B04	Train 2 Dryer Combustion Emissions	VOC	0.12	0.52	24, 33, 34	24, 32, 33, 34,37	24, 32
		NO _x	1.11	4.86			
		CO	3.33	14.59			
		PM	2.67	8.18			
		PM ₁₀	0.27	0.82			
		PM _{2.5}	0.27	0.82			
		SO ₂	0.02	0.07			
BD-B04	Train 2 Dryer	VOC	28.41	65.66	7, 9, 24, 33, 34	7, 9, 24, 32, 33, 34, 37	24, 32, 35
		VCM	11.08	19.97			
		VAM	17.33	45.69			
EG-01	Diesel Engine	VOC	19.44	0.51	18	18, 32, 37	32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	for Standby Power	NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
EG-02	Diesel Engine for Standby Power	VOC	19.44	0.51	18	18, 32, 37	32
		NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
T-03	Aqua Ammonia Storage Tank	NH ₃	3.19	0.14		32, 37	32
FUG-01	Process Area Piping Component Fugitives (5)	VOC	0.60	2.63	21, 25, 26, 27, 28, 29	21, 25, 26, 27, 28, 29, 32, 37	25, 29, 32
		VCM	0.57	2.48			
		VAM	0.04	0.15			
		NH ₃	0.03	0.12			
TF-01	Tank Farm Piping Component Fugitives (5)	VOC	0.07	0.29	21, 25, 26, 27, 29	21, 25, 26, 27, 29, 32, 37	21, 25, 29, 32
		VCM	0.05	0.23			
		VAM	0.01	0.06			
CT-01	Cooling Tower No. 1	VOC	1.25	5.48	19	19, 32, 37	32
		VCM	1.19	5.21			
		VAM	0.06	0.27			
		Chlorine Compounds	< 0.01	< 0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM	1.63	4.55			
		PM ₁₀	0.33	1.65			
		PM _{2.5}	< 0.01	0.01			
LPV-01	Low Pressure Vent – Trains 1 and 2 Reactor Opening Losses (6)	VOC	13.05	4.76	33	8, 32, 33, 37, 40	32
		VCM	13.05	4.76			
LPV-03	Low Pressure Vent – Trains 1 and 2 Downstream Losses	VOC	2.68	3.65	33	32, 33, 37	32
		VCM	2.68	3.65			
LPV-04	Low Pressure Vent – Trains 1 and 2 Additive Building	VOC	5.95	3.00	33	32, 33, 37	32
		NH ₃	7.88	6.58			
LPV-05	Low Pressure Vent – Trains 1 and 2 Slurry Treatment Area	VOC	2.70	1.00	33	32, 33, 37	32
		VCM	0.27	0.10			
CD-B02	CoPolymer Check Weigh Bin No. 1	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B18	CoPolymer Resin Bagger	PM	0.50	1.68	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.50	1.68			
		PM _{2.5}	0.02	0.08			
CD-B27	CoPolymer Check Weigh Bin No. 2	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B28	CoPolymer	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	Loading Baghouse	PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
CD-B29	CoPolymer Nuisance Dust Pickup	PM	0.04	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.04	0.12			
		PM _{2.5}	0.01	0.01			
BD-B06	Blending Resin Check Weigh Bin No. 1	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B07	Blending Resin Nuisance Dust Pickup	PM	0.54	1.81	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.54	1.81			
		PM _{2.5}	0.02	0.06			
BD-B10	Train 2 Hopper Vent	PM	0.02	0.02	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.02			
		PM _{2.5}	0.01	0.01			
BD-B19	Blending Resin Bagger	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
BD-B28	Blending Resin Check Weigh Bin No. 2	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B50	Blending Resin Check Weigh Bin No. 3	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
BD-B51	Blending Resin Check Weigh Bin No. 4	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
BD-B52	Blending Resin Loading Baghouse	PM	0.03	0.11	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.01	0.01			
BD-B53	Blending Resin Separator	PM	0.08	0.27	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.08	0.27			
		PM _{2.5}	0.01	0.01			
BD-B54	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
BD-B55	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
DD-B12	Grinder No. 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B13	Grinder No. 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B14	Grinder No. 1C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B15	Grinder No. 2A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B16	Grinder No. 2B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM _{2.5}	0.02	0.06			
BB-B17	Grinder No. 2C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B20	Train 1 Bagger Station No. 1	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B24	Bagger Station	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B31	Grinder No. 1D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B32	Grinder No. 1E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B33	Grinder No. 1F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B34	Grinder No. 1G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B35	Grinder No. 2D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B36	Grinder No. 2E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B37	Grinder No. 2F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B38	Grinder No. 2G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B39	Separator 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B40	Separator 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B41	Separator 2A	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B42	Separator 2B	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B43	Feed Hopper 1A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B44	Feed Hopper 1B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
DD-B45	Underground Product 1A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B46	Underground Product 1B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B47	Feed Hopper 2A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B48	Feed Hopper 2B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B49	Underground Product 2A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B50	Underground Product 2B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
S-01	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-02	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-03	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM _{2.5}	0.01	0.02			
S-04	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-05	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-09	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-10	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-11	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-12	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-13	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-14	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-17	Dispersion	PM	0.12	0.42		32, 37	32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	Resin Silo	PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-18	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-19	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-20	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-25	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
S-26	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
T-D01	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
T-D02	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
WWT-2	Wastewater Treatment Plant	VOC	5.00	18.26	20	20, 32, 37	32
		VCM	0.44	1.60			
		VAM	2.57	9.36			
		NH ₃	2.30	8.40			
SPVC-MNT	Emissions To Atmosphere	VOC	20.54	2.31	40, 41, 42	32, 37, 39, 40, 41, 46	32
		PM	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
		NH ₃	1.70	0.01			

- (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 - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - HCl - hydrogen chloride
 - Chlorine compounds - hypochlorous acid and hydrogen chloride
 - Cl₂ - chlorine
 - VCM - vinyl chloride monomer
 - VAM - vinyl acetate monomer
 - NH₃ - ammonia
- (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) Opening of reactors after every batch for cleaning prior to charging for the next batch.
- (7) Includes MSS emissions.

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	01/09/2025
Permit No.:	O3409
RN No.:	100218973

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 17

V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)

C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings

- | | | |
|----|--|---|
| 1. | The application area manufactures or imports architectural coatings for sale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act.
<i>If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. | All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings

- | | | |
|----|--|---|
| 1. | The application area manufactures or imports aerosol coating products for sale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area is a distributor of aerosol coatings for resale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers

- | | | |
|----|---|---|
| 1. | The application area manufactures or imports portable fuel containers for sale or distribution in the United States.
<i>If the response to Question V.E.1 is "NO," go to Section VI.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards

A. Applicability

- | | | | |
|---|----|--|---|
| ◆ | 1. | The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts.
<i>If the response to Question VI.A.1 is "NO," go to Section VII.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|----|--|---|

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Thursday, December 19, 2024 9:07:09 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image632057.png](#)
[image711997.png](#)
[App C.1 OP-MON CT-01.pdf](#)
[WDP_O3409_36586_Review_Draft_12162024 Comments.docx](#)
[App A.5 PBR SUP.pdf](#)
[35988 Permit 7417139.pdf](#)

Vasant

Good morning. Please find attached an updated OP-PBR SUP form adding the 106.263 PBR onto it. In regards to the APD-CERT, it was a certification for increasing fugitive emissions from the chiller under PBR 106.371. It increased emissions from that chiller, but since it is a PBR it does not change the issuance date for the NSR permit. The NSR permit date is still 6/12/2019. We have attached an updated OP-MON form and a recently issued Title V permit showing the desired monitoring condition for visible emissions from the cooling tower.

We have also left comments in the attached WDP; it looks like none of the comments from the previous round of comments were incorporated. It would be helpful for us if those comments that you're ok accepting were updated in track changes, so we know they're being addressed and that we do not have to submit the same comments on subsequent comment submittals.

Please let us know if you have any other questions or comments, and have a great day. Also, please note that due to the holidays the next two weeks there will be several people on vacation, so we will not be able to respond to further updates until after the new year.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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SLR is committed to the responsible and ethical use of relevant technologies including artificial intelligence (AI). If you have any questions or concerns, please contact us directly.

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: December 17, 2024 8:42 AM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

FYI - It appears that the APD-CERT submittal is for SPVC-RXFUG EPN (description: VC RX chiller system) authorized under PBR 106.371 (see attached). The reference to NSR permit 76503 on page 2 of the TCEQ issued letter dated November 9, 2021 which references the APD-CERT submittal (see attached) is not clear.

Thanks,
Vasant

From: Vasant Chaphekar
Sent: Monday, December 16, 2024 4:20 PM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

Attached is a revised draft of the WDP (version 1216/2024). It incorporates suggested changes except for a few items noted below.

Items for review:

1. PBR entries in OP-PBRSUP and OP-REQ1 are not matched. E.g., PBR 106.263 is included in OP-REQ1 but not included in OP-PBRSUP. Please advise.
2. NSR 76305 - updated permit date is requested? Last permit action on NSR 76305 was on 06/12/2019. Dates on NSR documents such as permit face, conditions, reflect the 06/12/2019 date. APD-CERT was submitted to the Rules and Registration section on 11/09/2021. However, APD-CERT applies to sitewide emissions (and not limited to NSR 76305 – this permit has its own MAERT). APD-CERT submittal did not result in the issuance of NSR documents such as permit face, conditions having a new issuance date. Therefore, no changes are being made to the NSR 76305 issuance date. Let me know if you disagree.
3. Also, as noted earlier, no changes are being made to the PM requirements for CT-1 unit. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Appreciate your response by by COB, Friday, 12/20/2024 or earlier.

Thanks,
Vasant

From: Vasant Chaphekar
Sent: Friday, December 13, 2024 11:29 AM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Conor,

I have received your comments to the WDP. I will review them and generate a revised WDP. To keep project schedule, we will need to go to public notice on this project in January 2025. Your cooperation would be appreciated.

However, as a FYI regarding changing monitoring frequency of CT-1 cooling tower from weekly to annual – I don’t think TCEQ would accept this change since you have selected PM-P-001 as the PM option. You will need to submit a new OP-MON request for case-by-case PM for the unit to incorporated the suggested changes. The case-by-case PM request will need to be reviewed/approved by a PM expert which may delay the project. If the PM expert/TCEQ has previously approved your “annual monitoring” request on another Formosa permit/project please send me the FOP permit/project number and unit ID as a reference.

Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>
Sent: Friday, December 13, 2024 10:03 AM
To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. Please find attached an updated WDP with comments from Formosa. Also, Formosa would like to add

a few things to the permit shield around 115 non-applicability for the OP-UA15 sources. Please find attached an OP-REQ2 and OP-2 for that request; no change to characteristics from previous representations, just want to add the permit shield for them. Thank you for your help, and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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SLR is committed to the responsible and ethical use of relevant technologies including artificial intelligence (AI). If you have any questions or concerns, please contact us directly.

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: December 09, 2024 1:31 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: WDP review -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Thx for your response. I have conducted a technical review of your renewal application for your Title V Permit (O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant). An electronic copy of a Working Draft Permit (WDP) is attached for your review/comments. The WDP contains TCEQ's determination of the applicable state/federal requirements based on the information submitted in your application, and any updates provided thereafter. Appreciate if you would acknowledge receipt of this email.

Please review the WDP (version 12092024) and submit any comments by COB, Friday, 12/20/2024 or earlier. You must submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please review the "SOP Technical Review Fact Sheet" located at https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf. This guidance contains important information regarding WDP review and comment procedures. Note that a Certification by Responsible Official (Form OP-CRO1) for any as yet uncertified submittals, including the WDP response, is required to be submitted (via STEERS or as a hard copy). I will advise you at a later date regarding the specifics of the OP-CRO1 form submittal. Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, December 6, 2024 11:29 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning and thank you for your follow up questions. We have answered them in line below. Outside of that, two engines and associated diesel tanks (EG-03 and EG-04, and T-D03 and T-D04) have been taken out of service and removed from the NSR permit, and do not need to be added to the T5 permit. We have updated the forms (UA2, UA3, and SUMR) accordingly to no longer reference them.

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111 – **OP-MON and UA15 updated and attached, dated for today.**
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form. **Updated UA2 attached, also no longer referencing EG-03 and EG-04 as noted above.**
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15. **OP-SUMR and OP-2 updated to include those units, and strike out the EG-03, EG-04, T-D03, and T-D04 requests as noted above.**
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well. **OP-SUMR updated to include the PBRSUP units.**

Please let us know if you have any other questions or comments and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:47 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

OK. Revised due date is 12/6/2024 or earlier. Thx.

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 3:44 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. We will start assembling these responses, but given the holidays and various people on vacation for it, can we have until Friday 12/6/24?

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:41 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Following info is requested (please include/add dates on all forms submitted):

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form.
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15.
4. Do you want to include all units listed in OP-PBR SUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well.

Appreciate your response by Wed., 12/4/24 or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 9:54 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant,

Good morning. We sent a follow up addressing those applicability issues on September 5, see attached. We think that covered it all; please review and let us know if you need anything additional. Thanks and have a great day!

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 8:32 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I am checking to see if you are "still looking into a few applicability issues" or all applicability issues have been resolved and I can proceed with the preparation of the working draft of the permit.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, September 5, 2024 2:22 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHH control requirements, they are not subject to MACT HHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHH, and this vessel opening operation is covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115 rules as well. See attached OP-UA15 documenting the exemption.
- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHH, but these vessel opening operations are covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?
9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no applicable state or federal requirements.
11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager
Environmental Dept.
Formosa Plastics Corporation, Texas
Phone: 361-987-7463 Mobile: 361-920-9401



From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBRSUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of compliance for compliance with applicable emission limits for registered PBRs?
3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided

through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division

Texas Commission on Environmental Quality

P.O. Box 13087, MC 163

Austin, TX 78711

Ph: (512) 239-1341

Fax: (512) 239-1400

Vasant.Chaphekar@tceq.texas.gov

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FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Formosa Plastics Corporation, Texas

AUTHORIZING THE OPERATION OF
Formosa Point Comfort Plant
Polyethylene Plant
Petrochemical Manufacturing

LOCATED AT
Calhoun County, Texas
Latitude 28° 41' 20" Longitude 96° 32' 50"
Regulated Entity Number: RN100218973

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: O1957 Issuance Date: December 6, 2024



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 FFFF and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, § 113.890 and § 113.1130, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

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. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), 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:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities 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 air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet 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.

- (4) 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)(7) and (a)(7)(A).
 - (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)(7)(B) 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. 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.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. 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)
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(c)(1).
5. 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)
6. 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)
7. 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(c)(2) (relating to Standards: General)
 - C. For exempting waste streams:
 - (i) Title 40 CFR § 61.342(c)(3)(i) (relating to Standards: General)
 - (ii) Title 40 CFR § 61.342(c)(3)(ii)(A) - (C) (relating to Standards: General)
 - D. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - E. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - F. 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)

- G. Title 40 CFR § 61.355(j) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - H. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - I. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - J. Title 40 CFR § 61.356(b)(2)(i) - (ii) (relating to Recordkeeping Requirements)
 - K. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - L. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
 - M. Title 40 CFR § 61.357(d)(3) (relating to Reporting Requirements)
8. 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.
 9. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
 10. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
 11. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

12. 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

13. 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 terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated August 13, 2024 in the application for project 35988), 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
14. 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.
15. 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).

Compliance Requirements

16. 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.
17. 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

18. 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

19. 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.

Alternative Requirements

20. 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 TCEQ Executive Director, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

21. 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)

22. 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

Alternative Requirement

Applicable Requirements Summary

Unit Summary 13

Applicable Requirements Summary 30

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 (§ 122.144), Reporting Terms and Conditions (§ 122.145), and Compliance Certification Terms and Conditions (§ 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
006	FUGITIVE EMISSION UNITS	N/A	60DDD-1	40 CFR Part 60, Subpart DDD	No changing attributes.
006	FUGITIVE EMISSION UNITS	N/A	63FFFF-5	40 CFR Part 63, Subpart FFFF	No changing attributes.
1018	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
1018	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-3	40 CFR Part 63, Subpart FFFF	No changing attributes.
1067	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
1067	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-3	40 CFR Part 63, Subpart FFFF	No changing attributes.
2-HDPE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
2D301	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
3-HDPE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
3D301	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
3V305	EMISSION	N/A	R5121-1	30 TAC Chapter 115, Vent	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Gas Controls	
D301	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP115LL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	LL-003, LL-004, LL-005, LL-006, LL-048, LL-049, LL-050, LL-051, LL-052, LL-053, LL-054, LL-055, LL-056, LL-057, LL-059, LL-060	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP115PE2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	001, 003, 004, 005, 013	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPBATCHLL	CHEMICAL MANUFACTURING PROCESS	B0-610, B1-300, B2-300, D1-050, D1-200, D2-050, D2-200, F0-680, F1-060, F1-061, F1-140, F1-141, F1-301, F2-060, F2-061, F2-140, F2-141, F2-301, S1-062, S1-210, S1-301, S1-304, S2-062, S2-210, S2-301, S2-304	63FFFF-1	40 CFR Part 63, Subpart FFFF	Scrubber = No scrubber is used., Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver has been requested., Prior Eval = Data from a prior evaluation or assessment is not used., Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., Designated HAL = The emission stream is not designated as halogenated., Vent Emission Control = Reduce uncontrolled organic HAP emissions

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					from all batch process vents within the process by venting through a closed-vent system to a flare per Table 2.1.c., Determined HAL = The emission stream is determined not to be halogenated.
GRPBATCHLL	CHEMICAL MANUFACTURING PROCESS	B0-610, B1-300, B2-300, D1-050, D1-200, D2-050, D2-200, F0-680, F1-060, F1-061, F1-140, F1-141, F1-301, F2-060, F2-061, F2-140, F2-141, F2-301, S1-062, S1-210, S1-301, S1-304, S2-062, S2-210, S2-301, S2-304	63FFFF-2	40 CFR Part 63, Subpart FFFF	Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., 1257A1 = A design evaluation as specified in § 63.1257(a)(1) is being conducted., Formaldehyde = The stream does not contain formaldehyde., Small Device = A small control device (defined in § 63.2550) is being used., Meets 63.988(b)(2) = The control device does not meet the criteria in § 63.988(b)(2)., Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure., Designated HAL = The emission stream is not designated as halogenated., CEMS = A CEMS is used., SS Device Type = Incinerator other than a catalytic incinerator., Determined HAL = The emission stream is determined not to be halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					have not been requested., Vent Emission Control = Reduce uncontrolled organic HAP emissions from one or more batch process vents by venting to a flare; for all other batch process vents in the process, reduce collective HAP emissions using control devices per Table 2.1.a., 1257A1 Device Type = Enclosed combustion device with a 0.5 second residence time at 760° C per § 63.1257(a)(1)(i)., HAL Device Type = No halogen scrubber or other halogen reduction device is used., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver has been requested.
GRPBATCHPE1	CHEMICAL MANUFACTURING PROCESS	2V104, 3V104, V103, V104	63FFFF-1	40 CFR Part 63, Subpart FFFF	Scrubber = No scrubber is used., Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver has been requested., Prior Eval = Data from a prior evaluation or assessment is not used., Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., Designated HAL = The emission stream is not designated as halogenated., Vent Emission Control = Reduce

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					uncontrolled organic HAP emissions from all batch process vents within the process by venting through a closed-vent system to a flare per Table 2.1.c., Determined HAL = The emission stream is determined not to be halogenated.
GRPBATCHPE1	CHEMICAL MANUFACTURING PROCESS	2V104, 3V104, V103, V104	63FFFF-2	40 CFR Part 63, Subpart FFFF	Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., 1257A1 = A design evaluation as specified in § 63.1257(a)(1) is being conducted., Formaldehyde = The stream does not contain formaldehyde., Small Device = A small control device (defined in § 63.2550) is being used., Meets 63.988(b)(2) = The control device does not meet the criteria in § 63.988(b)(2)., Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure., Designated HAL = The emission stream is not designated as halogenated., CEMS = A CEMS is used., SS Device Type = Incinerator other than a catalytic incinerator., Determined HAL = The emission stream is determined not to be halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					approved by the Administrator or have not been requested., Vent Emission Control = Reduce uncontrolled organic HAP emissions from one or more batch process vents by venting to a flare; for all other batch process vents in the process, reduce collective HAP emissions using control devices per Table 2.1.a., 1257A1 Device Type = Enclosed combustion device with a 0.5 second residence time at 760° C per § 63.1257(a)(1)(i)., HAL Device Type = No halogen scrubber or other halogen reduction device is used., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver has been requested.
GRPBATCHPE2	CHEMICAL MANUFACTURING PROCESS	V112A, V112B	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPCONTLL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	D0-630, F0-530, F0- 540, F0-541, F0- 620, F0-660, F0-690	63FFFF-3	40 CFR Part 63, Subpart FFFF	Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Bypass Line = Bypass line valves are secured in the closed position with a

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					car-seal or lock-and-key configuration., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver has not been requested., Determined Hal = The emission stream is determined to be non-halogenated.
GRPCONTLL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	D0-630, F0-530, F0-540, F0-541, F0-620, F0-660, F0-690	63FFFF-4	40 CFR Part 63, Subpart FFFF	Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested., Formaldehyde = The stream does not contain formaldehyde., Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., Prior Eval = The data from a prior evaluation or assessment is not used., CEMS = A CEMS is used., Designated Grp1 = The emission stream is designated as Group 1., 1257A1 Device Type = Enclosed combustion device with a 0.5 second residence time at 760° C per § 63.1257(a)(1)(i)., Small Device = A small control device (defined in § 63.2550) is being used., 1257A1 = A design evaluation as specified in §

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					63.1257(a)(1) is being conducted., Designated Hal = The emission stream is not designated as halogenated., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet 98% reduction per § 63.2455(a) - Table 1.1.a.i., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Incinerator other than a catalytic incinerator., Meets 63.988(b)(2) = The control device does not meet the criteria in § 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver is requested., Hal Device Type = No halogen scrubber or other halogen reduction device is used.
GRPCONTPE1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	2C501, 3C501, C501	63FFFF-3	40 CFR Part 63, Subpart FFFF	Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					data from a prior evaluation or assessment is used., Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Determined Hal = The emission stream is determined to be non-halogenated.
GRPCONTPE1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	2C501, 3C501, C501	63FFF-4	40 CFR Part 63, Subpart FFFF	Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested., Formaldehyde = The stream does not contain formaldehyde., Bypass Line = Bypass line valves are secured in the closed position with a car-seal or lock-and-key configuration., Prior Eval = The data from a prior evaluation or assessment is not used., CEMS = A CEMS is used., Designated Grp1 = The emission stream is designated as Group 1., 1257A1 Device Type = Enclosed combustion device with a 0.5 second residence time at 760° C per § 63.1257(a)(1)(i)., Small Device = A small control device (defined in § 63.2550) is being used., 1257A1 = A design evaluation as specified in §

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					63.1257(a)(1) is being conducted., Designated Hal = The emission stream is not designated as halogenated., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet 98% reduction per § 63.2455(a) - Table 1.1.a.i., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Incinerator other than a catalytic incinerator., Meets 63.988(b)(2) = The control device does not meet the criteria in § 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver is requested., Hal Device Type = No halogen scrubber or other halogen reduction device is used.
GRPCONTPE2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	C301, C302	63FFFF-3	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPTKPE1	STORAGE TANKS/VESSELS	3T501, 3T502, 3T503, 5T6010, 5T6020, 5T6030, 5T6040, 5T6050	R5112-1	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
GRPTKPE1	STORAGE TANKS/VESSELS	3T501, 3T502, 3T503, 5T6010, 5T6020, 5T6030, 5T6040, 5T6050	63FFFF-7	40 CFR Part 63, Subpart FFFF	No changing attributes.
H-601	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
H-601	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
H923A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
H923A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
H923B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
H923B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
HDPE I	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-2	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).,

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					Continuous Control Device = Flare., Intermittent Control Device = Flare.
HDPE I	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3A	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Incinerator other than a catalytic incinerator., Intermittent Control Device = Incinerator other than a catalytic incinerator.
HDPE I	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3B	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is less than 0.10%., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Incinerator other than a catalytic incinerator., Intermittent Control Device = Incinerator other than a catalytic incinerator.
HDPE I	POLYMER	N/A	60DDD-3C	40 CFR Part 60, Subpart	Uncontrolled Annual Emissions =

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	MANUFACTURING PROCESSES			DDD	Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Flare., Intermittent Control Device = Flare.
HDPE I	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3D	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is less than 0.10%., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Flare., Intermittent Control Device = Flare.
HDPE I	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-4	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					defined in 40 CFR § 60.561)., Continuous Control Device = Incinerator other than a catalytic incinerator., Intermittent Control Device = Incinerator other than a catalytic incinerator.
HDPE II	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-2	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
HDPE II	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3A	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
HDPE II	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3B	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Weight Percent TOC = Weight percent of total organic compounds is less than 0.10%., Control of

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
HDPE II	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3C	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is less than 0.10%., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
LE/HEI	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
LE/HEII	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
LI-01A/B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LI-01A/B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-4	40 CFR Part 63, Subpart FFFF	No changing attributes.
LL-067	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
LL-067	STORAGE	N/A	60KB-1	40 CFR Part 60, Subpart Kb	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	TANKS/VESSELS				
LL-068	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
LL-068	STORAGE TANKS/VESSELS	N/A	60KB-1	40 CFR Part 60, Subpart Kb	No changing attributes.
LL-CT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LL-CT	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-6	40 CFR Part 63, Subpart FFFF	No changing attributes.
LLDPE	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Control of Continuous Emissions = Some of the continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
LLDPE	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-4	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561).
PE-FUG	FUGITIVE EMISSION UNITS	N/A	63FFFF-5	40 CFR Part 63, Subpart FFFF	No changing attributes.
PO-CT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	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
PO-CT	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-6	40 CFR Part 63, Subpart FFFF	No changing attributes.
PP2-CT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
PP2-CT	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-6	40 CFR Part 63, Subpart FFFF	No changing attributes.
PROCESS	FUGITIVE EMISSION UNITS	N/A	60DDD-1	40 CFR Part 60, Subpart DDD	No changing attributes.
PROCESS	FUGITIVE EMISSION UNITS	N/A	63FFFF-5	40 CFR Part 63, Subpart FFFF	No changing attributes.
TTC VENT	CHEMICAL MANUFACTURING PROCESS	N/A	63FFFF-8	40 CFR Part 63, Subpart FFFF	No changing attributes.
V102	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	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)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(a) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-4 for pressure relief devices in gas/vapor service.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-5(a) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-5 for sampling connection systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-6(a)(1) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-6 for open-ended valves and lines.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60,	§ 60.562-2(a)	Comply with the	§ 60.482-1(f)(1)	§ 60.482-1(g)	§ 60.487(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)
				Subpart DDD	§ 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	requirements in as stated in §60.482-7 for valves in gas/vapor or light-liquid service.	§ 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) § 60.562-2(e)	[G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for flanges or other connectors.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.18 § 60.482-1(a) § 60.482-1(b)	Comply with the requirements in as stated in §60.482-10 for flares.	§ 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(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)
					§ 60.482-1(g) § 60.482-10(d) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		[G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) § 60.562-2(d)	§ 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.562-2(e) § 60.565(l)
006	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-2(b)(1) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-2 for pumps in light-liquid service.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) [G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) § 60.486(f) [G]§ 60.486(h) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
006	EU	63FFFF-5	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					specification requirements of 40 CFR Part 63, Subpart FFFF		CFR Part 63, Subpart FFFF		
1018	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
1018	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
1067	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from §	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(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)
						115.121(c)(1).			
1067	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
2-HDPE	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
2D301	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
3-HDPE	EP	R5121-2	VOC	30 TAC Chapter	§ 115.127(c)(1)(B)	A vent gas stream with a	[G]§ 115.125	§ 115.126	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)
				115, Vent Gas Controls	§ 115.127(c)(1)	combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).	§ 115.126(2) § 115.126(3)(B)	§ 115.126(2) § 115.126(3) § 115.126(3)(B)	
3-HDPE	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
3D301	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
3V305	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
3V305	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	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)
						§ 115.121(c)(1).			
D301	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
GRP115LL	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(A) § 115.127(c)(1)	A vent gas stream from a low-density polyethylene plant (LDPE) provided that no more than 1.1 lbs of ethylene per 1,000 lbs of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRP115PE2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
GRP115PE2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None

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						requirements of §115.121(c)(1) of this title.			
GRPBATCH LL	EP	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
GRPBATCH LL	EP	63FFFF-2	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.1257(a)(1) § 63.1257(a)(1)(i)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2450(k)(6)	§ 63.2450(f)(2)(ii) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(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)
					2.1.a § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1) § 63.997(c)(3) [G]§ 63.997(d)	each applicable requirement specified in §63.2460(b) and (c).	§ 63.2450(h) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.2525(h) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2)	§ 63.2460(c)(3)(ii) § 63.2460(c)(6) [G]§ 63.2525(d) § 63.2525(g) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.988(b)(1) § 63.996(c)(2)(ii) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) § 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(q) § 63.2460(c)(3)(i) § 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(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)
							§ 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) § 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i) [G]§ 63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2) § 63.997(e)(2)(i) [G]§ 63.997(e)(2)(i)(A) § 63.997(e)(2)(ii) § 63.997(e)(2)(iv) § 63.997(e)(2)(iv)(A) [G]§ 63.997(e)(2)(iv)(B) § 63.997(e)(2)(iv)(C) § 63.997(e)(2)(iv)(D) § 63.997(e)(2)(iv)(F) § 63.997(e)(2)(iv)(G) [G]§ 63.997(e)(2)(iv)(H)		
GRPBATCH PE1	EP	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(a)(3)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)		§ 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
GRPBATCH PE1	EP	63FFFF-2	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.a § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.1257(a)(1) § 63.1257(a)(1)(i) § 63.2450(h) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2450(k)(6) § 63.2460(c)(3)(ii) § 63.2460(c)(6) [G]§ 63.2525(d) § 63.2525(g) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.988(b)(1) § 63.996(c)(2)(ii) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B)	§ 63.2450(f)(2)(ii) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.2460(c)(3)(i) § 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1) § 63.997(c)(3) [G]§ 63.997(d)		§ 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.2525(h) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) § 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i) [G]§ 63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2) § 63.997(e)(2)(i) [G]§	§ 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(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)
							63.997(e)(2)(i)(A) § 63.997(e)(2)(ii) § 63.997(e)(2)(iv) § 63.997(e)(2)(iv)(A) [G]§ 63.997(e)(2)(iv)(B) § 63.997(e)(2)(iv)(C) § 63.997(e)(2)(iv)(D) § 63.997(e)(2)(iv)(F) § 63.997(e)(2)(iv)(G) [G]§ 63.997(e)(2)(iv)(H)		
GRPBATCH PE2	EP	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(iii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(a)(3)(iii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(3)(i) § 63.998(d)(3)(i)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(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)
							§ 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.998(d)(3)(ii) § 63.998(d)(5)	
GRPCONTL L	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
GRPCONTL L	EP	63FFFF-4	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2455(a)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.1257(a)(1) § 63.1257(a)(1)(i)	§ 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(a)(3)(ii)	§ 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1) § 63.997(c)(3) [G]§ 63.997(d)	organic HAP by greater than or equal to 98 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except flare).	§ 63.2450(h) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i) [G]§ 63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2)	§ 63.983(b) [G]§ 63.983(d)(2) § 63.988(b)(1) § 63.996(c)(2)(iii) § 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.997(e)(2)(i) [G]§ 63.997(e)(2)(i)(A) § 63.997(e)(2)(ii) § 63.997(e)(2)(iv) § 63.997(e)(2)(iv)(A) [G]§ 63.997(e)(2)(iv)(B) § 63.997(e)(2)(iv)(C) § 63.997(e)(2)(iv)(D) § 63.997(e)(2)(iv)(F) § 63.997(e)(2)(iv)(G) [G]§ 63.997(e)(2)(iv)(H)		
GRPCONTPE1	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) [G]§ 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(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)
GRPCONTPE1	EP	63FFFF-4	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1) § 63.997(c)(3) [G]§ 63.997(d)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by greater than or equal to 98 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except flare).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.1257(a)(1) § 63.1257(a)(1)(i) § 63.2450(h) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i)	§ 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.988(b)(1) § 63.996(c)(2)(ii) § 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2) § 63.997(e)(2)(i) [G]§ 63.997(e)(2)(i)(A) § 63.997(e)(2)(ii) § 63.997(e)(2)(iv) § 63.997(e)(2)(iv)(A) [G]§ 63.997(e)(2)(iv)(B) § 63.997(e)(2)(iv)(C) § 63.997(e)(2)(iv)(D) § 63.997(e)(2)(iv)(F) § 63.997(e)(2)(iv)(G) [G]§ 63.997(e)(2)(iv)(H)		
GRPCONTPE2	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) [G]§ 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(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)
					§ 63.997(b)(1) § 63.997(c)(3)		§ 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.998(d)(5)	
GRPTKPE1	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1) § 115.112(c)(2) § 115.112(c)(2)(A) § 115.112(c)(2)(B) § 115.114(c)(1)(A)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	§ 115.114(c)(1)(A) ** See Periodic Monitoring Summary	None	§ 115.114(c)(1)(B)
GRPTKPE1	EU	63FFFF-7	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a)-Table 4.1.b.i § 63.1062(a) § 63.1062(a)(1) § 63.1063(a)(1)(i) § 63.1063(a)(1)(i)(A) § 63.1063(a)(2)(i) § 63.1063(a)(2)(ii) § 63.1063(a)(2)(iii) § 63.1063(a)(2)(iv) § 63.1063(a)(2)(ix) § 63.1063(a)(2)(v) § 63.1063(a)(2)(vi) § 63.1063(a)(2)(vii) § 63.1063(b)(1) § 63.1063(b)(2) § 63.1063(b)(3) § 63.1063(b)(4) § 63.1063(b)(5) § 63.1063(e)(1) § 63.1063(e)(2) § 63.2470(a)	For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must comply with the requirements of Subpart WW of this part, except as specified in §63.2470.	§ 63.1063(c)(1) [G]§ 63.1063(c)(1)(i) [G]§ 63.1063(d)(1) § 63.1063(d)(2)	§ 63.1063(e)(2) § 63.1065 § 63.1065(a) [G]§ 63.1065(b)(1) § 63.1065(c) § 63.1065(d)	[G]§ 63.1066(a) § 63.1066(b)(1) § 63.1066(b)(2) § 63.1066(b)(4) § 63.2450(q)
H-601	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).		§ 115.126(3)(C)	
H-601	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
H-601	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
H923A	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
H923A	EP	R5121-3	VOC	30 TAC Chapter	§ 115.127(c)(1)(C)	A vent gas stream having a	[G]§ 115.125	§ 115.126	None

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				115, Vent Gas Controls	§ 115.127(c)(1)	concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	§ 115.126(2) § 115.126(3)(C)	§ 115.126(2) § 115.126(3) § 115.126(3)(C)	
H923B	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
H923B	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
HDPE I	EU	60DDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(iii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE I	PRO	60DDD-3A	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 %	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(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)
						from facilities as specified, exempted from §60.562-1(a)(1).			
HDPE I	PRO	60DDD-3A	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) § 60.562-1(a)(2)(ii) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b)(1)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) § 60.565(a)(4) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(a)(4) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)
HDPE I	PRO	60DDD-3B	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
HDPE I	PRO	60DDD-3B	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) § 60.562-1(a)(2)(ii) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b)(1)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) § 60.565(a)(4) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(a)(4) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)
HDPE I	PRO	60DDD-3C	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(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)
HDPE I	PRO	60DDD-3C	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE I	PRO	60DDD-3D	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE I	PRO	60DDD-3D	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
HDPE I	EU	60DDD-4	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) § 60.562-1(a)(2)(ii) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b)(1)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) § 60.565(a)(4) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(a)(4) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HDPE II	EU	60DDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE II	PRO	60DDD-3A	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE II	PRO	60DDD-3A	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
HDPE II	PRO	60DDD-3B	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 60.564(e)		
HDPE II	PRO	60DDD-3B	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
HDPE II	PRO	60DDD-3C	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/ replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(iii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
HDPE II	PRO	60DDD-3C	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
LE/HEI	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(b)(1) § 115.212(b)(1)(B) § 115.212(b)(3)(A) § 115.212(b)(3)(A)(ii) § 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C)	In Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis, and Victoria Counties, vapors caused by the loading of VOC with a TVP greater than or equal to 1.5 psia must be controlled using	§ 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(A)(ii)	§ 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.212(b)(3)(E) § 115.214(b)(1)(B) § 115.214(b)(1)(C)	one of the methods specified in §115.212(b)(1)(A)-(C).	§ 115.214(b)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(8) § 115.215(9)		
LE/HEII	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(b)(1) § 115.212(b)(1)(B) § 115.212(b)(3)(A) § 115.212(b)(3)(A)(ii) § 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.212(b)(3)(E) § 115.214(b)(1)(B) § 115.214(b)(1)(C)	In Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis, and Victoria Counties, vapors caused by the loading of VOC with a TVP greater than or equal to 1.5 psia must be controlled using one of the methods specified in §115.212(b)(1)(A)-(C).	§ 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(A)(ii) § 115.214(b)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(8) § 115.215(9)	§ 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
LI-01A/B	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(A) § 115.127(c)(1)	A vent gas stream from a LDPE plant emitting less than or equal to 1.1 lbs of ethylene/1,000 lbs of product from all the vent gas streams associated with the solidified product is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
LI-01A/B	EP	63FFFF-4	112(B)	40 CFR Part 63,	§ 63.2455(a)-Table	For each Group 1	[G]§ 63.115(d)(2)(v)	§ 63.2450(k)(6)	§ 63.2450(j)(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)
			HAPS	Subpart FFFF	1.1.a.i § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1) § 63.997(c)(3) [G]§ 63.997(d)	continuous process vent, the owner or operator must reduce emissions of total organic HAP by greater than or equal to 98 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except flare).	§ 63.115(d)(3)(iii) § 63.1257(a)(1) § 63.1257(a)(1)(i) § 63.2450(h) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) [G]§ 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i) [G]§	§ 63.2525(g) § 63.2525(h) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.988(b)(1) § 63.996(c)(2) § 63.996(c)(2)(ii) § 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2) § 63.997(e)(2)(i) [G]§ 63.997(e)(2)(i)(A) § 63.997(e)(2)(ii) § 63.997(e)(2)(iv) § 63.997(e)(2)(iv)(A) [G]§ 63.997(e)(2)(iv)(B) § 63.997(e)(2)(iv)(C) § 63.997(e)(2)(iv)(D) § 63.997(e)(2)(iv)(F) § 63.997(e)(2)(iv)(G) [G]§ 63.997(e)(2)(iv)(H)		
LL-067	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1) § 115.111(c)(2) § 115.112(c)(2) § 115.112(c)(2)(A) § 115.114(c)(1)(A)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	§ 115.114(c)(1)(A) ** See Periodic Monitoring Summary	None	§ 115.114(c)(1)(B)
LL-067	EU	60KB-1	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)	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)	§ 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)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)		[G]§ 60.116b(e)(3)		
LL-068	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1) § 115.111(c)(2) § 115.112(c)(2) § 115.112(c)(2)(A) § 115.114(c)(1)(A)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	§ 115.114(c)(1)(A) ** See Periodic Monitoring Summary	None	§ 115.114(c)(1)(B)
LL-068	EU	60KB-1	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)
LL-CT	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LL-CT	EU	63FFFF-6	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.2490(a)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) ** See Alternative Requirement	[G]§ 63.104(e)(2) [G]§ 63.104(f)(1)	[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)
					§ 63.2490(b) § 63.2490(c)				
LLDPE	PRO	60DDD-3	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
LLDPE	PRO	60DDD-3	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) § 60.562-1(a)(2)(ii) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/r eplacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b)(1)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) § 60.565(a)(4) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(a)(4) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)
LLDPE	EU	60DDD-4	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) § 60.562-1(a)(2)(ii) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/r eplacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b)(1)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) § 60.565(a)(4) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(a)(4) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)
PE-FUG	EU	63FFFF-5	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PO-CT	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
PO-CT	EU	63FFFF-6	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.2490(a) § 63.2490(b) § 63.2490(c)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) ** See Alternative Requirement	[G]§ 63.104(e)(2) [G]§ 63.104(f)(1)	[G]§ 63.104(f)(2)
PP2-CT	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
PP2-CT	EU	63FFFF-6	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.2490(a) § 63.2490(b) § 63.2490(c)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) ** See Alternative Requirement	[G]§ 63.104(e)(2) [G]§ 63.104(f)(1)	[G]§ 63.104(f)(2)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60,	§ 60.562-2(a)	Comply with the	§ 60.482-1(f)(1)	§ 60.482-1(g)	§ 60.487(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)
				Subpart DDD	§ 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	requirements in as stated in §60.482-7 for valves in gas/vapor or light-liquid service.	§ 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) § 60.562-2(e)	[G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for flanges or other connectors.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g)	Comply with the requirements in as stated in §60.482-10 for closed-vent systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(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)
					§ 60.482-10 [G]§ 60.482-10(f) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(i) [G]§ 60.482-10(j) [G]§ 60.482-10(k) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		§ 60.562-2(d)	§ 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-10(c) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-10 for enclosed combustion devices.	§ 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-10(d) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-10 for flares.	§ 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-2(b)(1) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2)	Comply with the requirements as stated in §60.482-2 for pumps in light-liquid service.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) [G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		[G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.486(f) [G]§ 60.486(h) § 60.486(j) § 60.562-2(e)	
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-3(a) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-3 for compressors.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-6(a)(1) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-6 for open-ended valves and lines.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-5(a) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-5 for sampling connection systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(a) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-4 for pressure relief devices in gas/vapor service.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	60DDD-1	VOC/TOC	40 CFR Part 60,	§ 60.562-2(a)	Comply with the	§ 60.482-8(a)(1)	§ 60.482-1(g)	§ 60.487(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)
				Subpart DDD	§ 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	requirements in as stated in §60.482-8 for pressure relief devices in light-liquid or heavy-liquid service.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	[G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
PROCESS	EU	63FFFF-5	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
TTC VENT	PRO	63FFFF-8	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2440(a) § 63.2450(a) § 63.2450(l) § 63.2460(c)(1)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	§ 63.2445(d) § 63.2460(c)(2)(v)	§ 63.2525 § 63.2525(a) [G]§ 63.2525(b) § 63.2525(c) § 63.2525(e) § 63.2525(e)(2) § 63.2525(e)(3) [G]§ 63.2525(e)(4) § 63.2525(f) § 63.2525(j)	§ 63.2435(d) § 63.2445(c) § 63.2450(g)(5) § 63.2450(m) § 63.2450(m)(1) § 63.2450(m)(2) § 63.2460(c)(1) § 63.2515(a) § 63.2515(b)(1) § 63.2515(c) § 63.2520(a) [G]§ 63.2520(b) [G]§ 63.2520(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)
									[G]§ 63.2520(d) § 63.2520(e) § 63.2520(e)(1) [G]§ 63.2520(e)(10) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(4) § 63.2520(e)(5) § 63.2520(e)(5)(i) [G]§ 63.2520(e)(5)(ii) [G]§ 63.2520(e)(5)(iii) § 63.2520(e)(5)(iv) § 63.2520(e)(6) § 63.2520(e)(7) § 63.2520(e)(9)
V102	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
V102	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None

Additional Monitoring Requirements

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Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPTKPE1	
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.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: 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.	
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.: H923A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period.	
<p>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.</p> <p>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.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: H923B	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period.	
<p>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.</p> <p>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.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LL-067	
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.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: 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.	
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.: LL-068	
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.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: 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.	
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.: LL-CT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PO-CT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PP2-CT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per year	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Permit Shield

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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
006	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	The facility is not located in the applicable ozone nonattainment areas.
006	N/A	40 CFR Part 61, Subpart F	The unit does not produce ethylene dichloride, vinyl chloride, or one or more polymers containing any fraction of polymerized vinyl chloride.
006	N/A	40 CFR Part 61, Subpart J	The facility does not contain any source in benzene service.
006	N/A	40 CFR Part 61, Subpart V	No sources are operated in VHAP service.
006	N/A	40 CFR Part 63, Subpart H	The unit is not a chemical manufacturing process unit that manufactures as a primary product one or more of the chemicals listed in 40 CFR 63, Subpart F.
006	N/A	40 CFR Part 63, Subpart I	The unit does not produce any of the applicable chemicals.
D0-615	N/A	30 TAC Chapter 115, Water Separation	The material being separated has a true vapor pressure less than 1.5 psia.
GRPTKPE1	3T501, 3T502, 3T503, 5T6010, 5T6020, 5T6030, 5T6040, 5T6050	40 CFR Part 60, Subpart Kb	FPC is electing to comply only with the provisions of 40 CFR 63, Subpart FFFF in accordance with §63.2535(c).
GRPTKPE1	3T501, 3T502, 3T503, 5T6010, 5T6020, 5T6030, 5T6040, 5T6050	40 CFR Part 63, Subpart OO	The tank is not subject to another subpart of 40 CFR parts 60, 61, or 63 which references the use of this subpart for control of air emissions.
LL-067	N/A	40 CFR Part 63, Subpart OO	The tank is not subject to another subpart within 40 CFR 60, 61, or 63 which references this subpart for control of air emissions.

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
LL-068	N/A	40 CFR Part 63, Subpart OO	The tank is not subject to another subpart within 40 CFR 60, 61, or 63 which references this subpart for control of air emissions.
LL-CT	N/A	40 CFR Part 63, Subpart Q	The cooling tower has not operated with chromium-based water treatment chemicals on or after September 8, 1994.
PE-FUG	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	The facility is not located in the applicable ozone nonattainment areas.
PE-FUG	N/A	40 CFR Part 60, Subpart DDD	FPC is electing to comply only with the provisions of 40 CFR 63, Subpart FFFF in accordance with §63.2535(h).
PE-FUG	N/A	40 CFR Part 61, Subpart F	The unit does not produce ethylene dichloride, vinyl chloride, or one or more polymers containing any fraction of polymerized vinyl chloride.
PE-FUG	N/A	40 CFR Part 61, Subpart J	The facility does not contain any source in benzene service.
PE-FUG	N/A	40 CFR Part 61, Subpart V	No sources are operated in VHAP service.
PE-FUG	N/A	40 CFR Part 63, Subpart H	The unit is not a chemical manufacturing process unit that manufactures as a primary product one or more of the chemicals listed in 40 CFR 63, Subpart F.
PE-FUG	N/A	40 CFR Part 63, Subpart I	The unit does not produce any of the applicable chemicals.
PO-CT	N/A	40 CFR Part 63, Subpart Q	The cooling tower has not used compounds containing chromium on or after September 8,

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
			1994.
PP2-CT	N/A	40 CFR Part 63, Subpart Q	The cooling tower has not used compounds containing chromium on or after September 8, 1994.
PROCESS	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	The facility is not located in the applicable ozone nonattainment areas.
PROCESS	N/A	40 CFR Part 61, Subpart F	The unit does not produce ethylene dichloride, vinyl chloride, or one or more polymers containing any fraction of polymerized vinyl chloride.
PROCESS	N/A	40 CFR Part 61, Subpart J	The facility does not contain any source in benzene service.
PROCESS	N/A	40 CFR Part 61, Subpart V	No sources are operated in VHAP service.
PROCESS	N/A	40 CFR Part 63, Subpart H	The unit is not a chemical manufacturing process unit that manufactures as a primary product one or more of the chemicals listed in 40 CFR 63, Subpart F.
PROCESS	N/A	40 CFR Part 63, Subpart I	The unit does not produce any of the applicable chemicals.

New Source Review Authorization References

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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.: PSDTX1222	Issuance Date: 02/07/2020
PSD Permit No.: PSDTX1224	Issuance Date: 08/11/2022
PSD Permit No.: PSDTX1232	Issuance Date: 09/06/2019
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.: 19201	Issuance Date: 09/06/2019
Authorization No.: 20203	Issuance Date: 08/11/2022
Authorization No.: 40157	Issuance Date: 02/07/2020
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 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**
001	FLASH TANK CLEANOUT SCREEN	40157, PSDTX1222
003	PELLET DRYER	40157, PSDTX1222
004	PELLET BLENDING AND STORAGE	40157, PSDTX1222
005	PELLET LOADOUT FILTER	40157, PSDTX1222
006	PROCESS FUGITIVES	40157, PSDTX1222
013	EXTRUDER FEED TANK AND CONTINUOUS BLENDING VENT	40157, PSDTX1222
1018	OLEFINS I ELEVATED FLARE	19201, 20203, 40157, PSDTX1222, PSDTX1224, PSDTX1232
1067	ELEVATED FLARE	19201, 20203, 40157, PSDTX1222, PSDTX1224, PSDTX1232
2-HDPE	DOWNSTREAM PELLET HANDLING	19201, PSDTX1232
2C501	2C501 HEXANE DEHYDRATION COLUMN	19201, PSDTX1232
2D301	HDPE TRAIN B DRYER VENT	19201, PSDTX1232
2V104	2V104 CATALYST SLURRY DRUM	19201, PSDTX1232
3-HDPE	DOWNSTREAM PELLET HANDLING	19201, PSDTX1232
3C501	3C501 HEXANE DEHYDRATION COLUMN	19201, PSDTX1232
3D301	HDPE TRAIN C DRYER VENT	19201, PSDTX1232
3T501	3T-501 HEXANE TANK	19201, PSDTX1232
3T502	3T-502 HEXANE TANK	19201, PSDTX1232
3T503	3T-503 HEXENE TANK	19201, PSDTX1232
3V104	3V104 CATALYST SLURRY DRUM	19201, PSDTX1232

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**
3V305	SEAL DIP POT	19201, PSDTX1232
5T6010	TANK T-501	19201, PSDTX1232
5T6020	TANK T-502	19201, PSDTX1232
5T6030	TANK 2T-502	19201, PSDTX1232
5T6040	TANK T-503	19201, PSDTX1232
5T6050	TANK 2T-503	19201, PSDTX1232
B0-610	B0-610 DRYER	20203, PSDTX1224
B1-300	B1-300 DRYER	20203, PSDTX1224
B2-300	B2-300 DRYER	20203, PSDTX1224
C301	DEHEXANYZER COLUMN	40157, PSDTX1222
C302	DEETHANIZER COLUMN	40157, PSDTX1222
C501	C501 HEXANE DEHYDRATION COLUMN	19201, PSDTX1232
D0-615	WASTEWATER TANK	20203, PSDTX1224
D0-630	D0-630 SOLVENT RECOVERY COLUMN	20203, PSDTX1224
D1-050	D1-050 CATALYST REACTOR	20203, PSDTX1224
D1-200	D1-200 PREPOLYMER REACTOR	20203, PSDTX1224
D2-050	D2-050 CATALYST REACTOR	20203, PSDTX1224
D2-200	D2-200 PREPOLYMER REACTOR	20203, PSDTX1224
D301	HDPE TRAIN A DRYER VENT	19201, PSDTX1232
F0-530	F0-530 PETROLEUM OIL RECEIVER	20203, PSDTX1224
F0-540	F0-540 FLARE KO DRUM	20203, PSDTX1224

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**
F0-541	F0-541 INCINERATOR KO DRUM	20203, PSDTX1224
F0-620	F0-620 FRACTIONATOR FEED DRUM	20203, PSDTX1224
F0-660	F0-660 LIQUID FUEL STORAGE TANK	20203, PSDTX1224
F0-680	F0-680 CATALYST WASH SOLVENT DRUM	20203, PSDTX1224
F0-690	F0-690 RECOVERY SOLVENT DRUM	20203, PSDTX1224
F1-060	F1-060 CATALYST DILUTION DRUM	20203, PSDTX1224
F1-061	F1-061 CATALYST DRUM	20203, PSDTX1224
F1-140	F1-140 CATALYST DRUM	20203, PSDTX1224
F1-141	F1-141 CATALYST DRUM	20203, PSDTX1224
F1-301	F1-301 C1-300 SEPARATOR	20203, PSDTX1224
F2-060	F2-060 CATALYST DILUTION DRUM	20203, PSDTX1224
F2-061	F2-061 CATALYST DRUM	20203, PSDTX1224
F2-140	F2-140 CATALYST DRUM	20203, PSDTX1224
F2-141	F2-141 CATALYST PIPETTE TANK	20203, PSDTX1224
F2-301	F2-301 C2-300 SEPARATOR	20203, PSDTX1224
H-601	CATALYST ACTIVATOR DIRECT HEATER	40157, PSDTX1222
H923A	THERMAL INCINERATOR	19201, PSDTX1232
H923B	THERMAL INCINERATOR	19201, PSDTX1232
HDPE I	HDPE I PLANT	19201, PSDTX1232
HDPE II	HDPE II PLANT	40157, PSDTX1222
LE/HEI	LIGHT ENDS HEAVY ENDS LOADING (LLDPE)	20203, PSDTX1224

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**
LE/HEII	LIGHT ENDS HEAVY ENDS LOADING (HDPEII)	40157, PSDTX1222
LI-01A/B	THERMAL INCINERATOR	20203, PSDTX1224
LL-003	EXTRUDER FEED BIN NO. 1	20203, PSDTX1224
LL-004	EXTRUDER FEED BIN NO. 2	20203, PSDTX1224
LL-005	CATALYST FILLING VENT NO. 1	20203, PSDTX1224
LL-006	CATALYST FILLING VENT NO. 2	20203, PSDTX1224
LL-048	F1-325 WASTE HOPPER	20203, PSDTX1224
LL-049	F2-325 WASTE HOPPER	20203, PSDTX1224
LL-050	S1-412 WASTE POWDER	20203, PSDTX1224
LL-051	S2-412 WASTE POWDER	20203, PSDTX1224
LL-052	S1-805 SIEVE CLEAN-OUT	20203, PSDTX1224
LL-053	S2-806 SIEVE CLEAN-OUT	20203, PSDTX1224
LL-054	F1-806 REFUSE HOPPER	20203, PSDTX1224
LL-055	F2-806 REFUSE HOPPER	20203, PSDTX1224
LL-056	F1-553 REFUSE HOPPER	20203, PSDTX1224
LL-057	F2-553 REFUSE HOPPER	20203, PSDTX1224
LL-059	F2--800 BAG FILTER	20203, PSDTX1224
LL-060	F2-810 BAG FILTER	20203, PSDTX1224
LL-067	F0-912 HEXENE STORAGE TANK	20203, PSDTX1224
LL-068	F0-913 HEXENE STORAGE TANK	20203, PSDTX1224
LL-CT	LLDPE COOLING TOWER	20203, PSDTX1224, 106.262/11/01/2003 [171738]

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**
LLDPE	LLDPE PLANT	20203, PSDTX1224
PE-FUG	PLANT FUGITIVES	19201, PSDTX1232, 106.262/11/01/2003 [163454]
PO-CT	COOLING TOWER	19201, PSDTX1232, 106.262/11/01/2003 [172733,173338,163454]
PP2-CT	COOLING TOWER	40157, PSDTX1222, 106.262/11/01/2003 [173343]
PROCESS	PROCESS FUGITIVES	20203, PSDTX1224
S1-062	S1-062 SETTLING DRUM	20203, PSDTX1224
S1-210	S1-210 SOLVENT DECANter	20203, PSDTX1224
S1-301	S1-301 HYDROCYCLONE	20203, PSDTX1224
S1-304	S1-304 GAS/LIQUID SEPARATOR	20203, PSDTX1224
S2-062	S2-062 SETTLING DRUM	20203, PSDTX1224
S2-210	S2-210 SOLVENT DECANter	20203, PSDTX1224
S2-301	S2-301 HYDROCYCLONE	20203, PSDTX1224
S2-304	S2-304 GAS/LIQUID SEPARATOR	20203, PSDTX1224
TTC VENT	TTC VENT	19201, PSDTX1232
V102	CATALYST DIP POT	19201, PSDTX1232
V103	V103 ATE SOLUTION DRUM	19201, PSDTX1232
V104	V104 CATALYST SLURRY DRUM	19201, PSDTX1232
V112A	COCATALYST RUN TANK	40157, PSDTX1222
V112B	COCATALYST RUN TANK	40157, PSDTX1222

**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.

Alternative Requirement

Alternative Requirement..... 88

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niemann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 14, 2016

MR RICK CRABTREE
ASSISTANT GENERAL MANAGER
FORMOSA PLASTICS CORPORATION TEXAS
PO BOX 700
POINT COMFORT TX 77978-0700

Re: Alternative Method of Compliance (AMOC) No. 66
Alternative Monitoring For Cooling Towers
Formosa Point Comfort Plant
Regulated Entity Number: RN100218973
Customer Reference Number: CN600130017
Associated Permit Numbers: 7699, 19166, 19167, 19168, 19198, 19199, 19200,
19201, 20203, 40157, 76044, 76305, 91780, 107518, 107520, 127838, 128752,
HAP10, PSDTX1053, PSDTX1058, PSDTX1222, PSDTX1224, PSDTX1226,
PSDTX1232, PSDTX1234, PSDTX1237, PSDTX1238, PSDTX1240, PSDTX1383,
PSDTX1384, PSDTX226M7, PSDTX760M9, O1484, O1951, O1953, O1954, O1956,
O1957, O1958, O3409, and O3421

Dear Mr. Crabtree:

This correspondence is in response to Formosa Plastics Corporation, Texas's (Formosa's) request for Alternative Monitoring for all cooling towers (CT) at the Formosa Point Comfort Plant. The AMOC is used to comply with requirements for sampling and analysis of VOCs in cooling tower feed water and makeup water.

We understand that Formosa is requesting clarification and confirmation of the alternative VOC sampling procedure for all authorized CT at the site installed on similar product processes (see Attachment 1). This alternative method was previously approved for Formosa on December 2, 1992, January 11, 1996, and August 1997.

The alternative VOC sampling (referenced in historical correspondence as FPC TX VOC IN WATER AND WASTEWATER) is equivalent to Test Method 8020A. The method is detailed in Attachment 2 and should provide representative concentrations of non-methane hydrocarbons to comply with the above-referenced permits. This alternative method does not apply to any requirements that may in 40 Code of Federal Regulations Part 60, New Source Performance Standards (NSPS), 40 Code of Federal Regulations Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAP), or 40 Code of Federal Regulations Part 63, Maximum Achievable Control Technology (MACT) Standards for Hazardous Air Pollutants.

P.O. Box 13087 - Austin, Texas 78711-3087 - 512-239-1000 - tceq.texas.gov

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December 14, 2016
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Mr. Rick Crabtree

Re: AMOC #66

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC.

This AMOC approval may supersede certain requirements or representations in Permit Nos. 7699, 19166, 19167, 19168, 19198, 19199, 19200, 19201, 20203, 40157, 76044, 76305, 91780, 107518, 107520, 127838, 128752, HAP10, PSDTX1053, PSDTX1058, PSDTX1222, PSDTX1224, PSDTX1226, PSDTX1232, PSDTX1234, PSDTX1237, PSDTX1238, PSDTX1240, PSDTX1383, PSDTX1384, PSDTX226M7, and PSDTX760M9. To ensure effective and consistent enforceability, we request that Formosa incorporate this AMOC into the permit(s) through submittal of alteration(s) no later than 90 days after this approval, if not already included.

This approval may also change applicable requirements for the site, which are identified in the site operating permits (SOP) O1484, O1951, O1953, O1954, O1956, O1957, O1958, O3409, and O3421. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239-1276 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.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 255806

December 14, 2016

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Mr. Rick Crabtree

Re: AMOC #66

bcc: Air Section Manager, Region 14 - Corpus Christi
Rebecca Partee, Manager, Chemical Section, Air Permits Division, OA: MC-163

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Mr. Rick Crabtree

Re: AMOC #66

Re: AMOC #66

Attachment 1 - Summary of Cooling Towers and Authorizations				
Permit Nos.	Type of Process	Plant	EPNs	Previous Approval
19166, HAP10, PSDTX760M9, O1951	Inorganic	Utilities Plant	Not identified on MAERT	12/2/1992
19167, O1953	Inorganic	Caustic Chlorine Plant	Not identified on MAERT (shares with EDC-CT)	1/11/1996
76044, PSDTX1053, O3421	Inorganic	Pet Coke / Coal Fired Generation	CT-1 through CT-12	N/A
19168, PSDTX1226, O1958	Organic Olefins	Olefins I Olefins II GHU PPU FRACII	1010 1064 8801U FRACII-CT	N/A
107518, PSDTX1383 SOP PENDING	Organic Olefins	Olefins III PDH	OL3-CTWR PDH-CWTR	N/A
19201, PSDTX1232 O1957	Organic Polyolefins	HDPE I	PO-CT	1/11/1996
40157, PSDTX1222 O1957	Organic Polyolefins	HDPE II	PP2-CT	N/A
20203, PSDTX1224 O1957	Organic Polyolefins	LLDPE	LL-CT	12/2/1992
107520, PSDTX1384 SOP PENDING	Organic Polyolefins	LDPE	LD-CT	N/A
19200, PSDTX1237, O1956	Organic Polyolefins	Polypropylene I Plant (PP I)	PO-CT PP1-CT	1/11/1996
91780, PSDTX1240 O1956	Organic Polyolefins	PP II	PP20CT	N/A
127838 SOP PENDING	Organic Polyolefins	HDPE 3	PE3-12	N/A
19199, PSDTX1238 O1953	Organic Other	Ethylene Dichloride (EDC)	2C-C1 2C-C2 EDC-CT	
7699, PSDTX226M7 O1954	Organic Other	EDC Cracking, VCM, PVC	999 VW-C02 VW-C11	12/2/1992
19198, PSDTX1234 O1484	Organic Other	Ethylene Glycol (EG)	EG-CT	8/1997
128752 SOP PENDING	Organic Other	EG 2	EG2-CT	N/A
76305, PSDTX1058 O3409	Organic Other	Specialty PVC	CT-01	N/A

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Mr. Rick Crabtree

Re: AMOC #66

Mr. Wilson
June 11, 2015

Attachment 2

VOC in Water and Wastewater by TACB-VOC Method Procedure

LABORATORY STANDARD OPERATING PROCEDURES

VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

1.0 PURPOSE *

In an effort to maintain Quality, Efficiency, Safety, and Environmental Responsibility, this procedure has been developed for L.S. & Q.A. Department Operation.

2.0 SCOPE *

This method is for the analysis of water and wastewater samples containing volatile organic compounds (VOC) and non-methane hydrocarbons (NMHC). It is intended for analyzing treated and un-treated water and wastewater streams permitted in FPC expansion complex.

This method can be used to quantitate volatile organic compounds that have boiling points less than 200°C and are insoluble or slightly soluble in water.

3.0 ORGANIZATIONS AFFECTED

This procedure affects operation within the L.S. & Q.A. Department and any other department that may request this analysis.

4.0 RESPONSIBILITIES

Personnel	Responsibility
Management/Supervision	Responsible for development and implementation of the procedure, training material, and training of subordinates
QA/QC	Responsible for auditing the performance of the procedure.
Lab Technician	Responsible for knowing and performing analysis per procedure.

5.0 DEFINITIONS

VOC *Volatile Organic Compounds (VOC)* are organic compounds that have boiling points approximately less than 200°C.

6.0 KEY POINTS

Not applicable

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VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

7.0 POLICIES *

This procedure has been developed to insure adherence to FPC Quality, Environmental, Health, and Safety Policies, FPC Corporate Total Quality Management Policies, L.S. & Q.A. Department Quality Management Plan and L.S. & Q.A. Department Quality Assurance Project Plan.

8.0 GUIDELINES

<i>Summary</i>	Volatile organic compounds (VOC) are extracted from sample by purge and trap techniques. Stripped sample components are swept to the gas chromatograph inlet where the individual components are detected using a flame ionization detector. The resultant peaks are summed and quantitated against external calibration curve constructed using benzene as a standard.
<i>Interferences</i>	Major contaminate peaks are volatile materials in the laboratory and impurities in the inert purging or carrier gas. A trip blank prepared from organic-free reagent water and carried through the sampling and handling protocol can serve as a check for any possible contamination of sample.
<i>Safety Considerations</i>	The use of proper gloves, safety glasses, and FRC should be exercised when using reagents. Exercise caution when working with glassware. Wipe any spills, clean area immediately and dispose of properly. Avoid skin or eye contact, inhalation or ingestion. Do not operate instrument without all protective equipment in place.
<i>Sample Collection and Storage</i>	<ul style="list-style-type: none"> - Water sample are collected in 40mL vial with a Teflon-lined septum and an open top screw-cap. Two vials per sampling event must be collected at a minimum per sample point. The containers must be filled in such manner that no air bubbles pass through the sample as the container is being filled. Should bubbling occur, the sample must be poured out and the vial refilled. Seal the vial so that no air bubbles are entrapped in it. - Due to differing solubility and diffusion properties of gases in liquid matrices at different temperatures, it is possible for the sample to generate some headspace during storage. This headspace will appear in the form of micro-bubbles, and should not invalidate a sample for volatile analysis. - The presence of a macro-bubble, generally indicates either improper sampling technique or a source of gas evolution within the sample. Studies conducted by the USEPA (EMSL-Ci, unpublished data) indicate that "pea-sized" bubbles (i.e. diameter < ¼ in.) did not adversely affect volatiles data. These bubbles were generally encountered in wastewater samples, which are more susceptible to variations in gas solubility than are groundwater samples.

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<i>Sample Collection, Preservation, Containers, and Holding Times</i>				Revision Number 5
Container ^①	Minimum Sample Size (mL)	Sample Type ^②	Preservation ^③	Maximum Storage; Recommended/Regulatory ^④
G-TLC	40	G,C	Refrigerated at 4°C	7 days

① G-TLC = glass with Teflon-lined cap.
 ② G = grab; C = composite.
 ③ Refrigerate = Storage at 4°C, in the dark
 ④ Reference 4

Apparatus and Equipment

1. Gas Chromatograph/Detector/Data System
 - a. Gas Chromatograph - Agilent model 6890 or model 5890 (as back up)
 - b. The GC must be equipped with a Agilent flame ionization detector (FID) or equivalent
 - c. The recommended data system is a Agilent Chemstation (or equivalent)
 - d. The GC column used for this determination is a J&W DB-5 column. The dimensions of the column are 30 m x 0.53 mm ID x 1.50 µm film thickness.
2. Purge-and-Trap - An OI Analytical 4560 purge-and-trap or equivalent is recommended. The trap will be constructed of stainless tubing and filled with 2,6-diphenylene oxide polymer (Tenax GC or equivalent), methyl silicon packing, silica gel, and coconut charcoal. Alternatively, hydrophobic carbon molecular sieve and graphitized carbon black materials may be substituted if equivalent or increased method sensitivity can be demonstrated.
An OI 4551A autosampler is configured to the purge-and-trap to allow for automated analysis.
4. Gas-Tight Microsyringes; 10, 25, 100, 250, 1000 µL sizes
5. 40 mL VOA (volatile organic analysis) vials with Teflon faced septa

Reagents

1. Organic-free reagent water (18.2 ohm-cm Millipore water)
2. Certified 2.0 mg/ml benzene standard in methanol solvent for initial calibration verification. Accustandard stock number M502-01-10X
3. Methanol, Pesticide quality or equivalent
4. Certified 1.0 mg/ml Benzene Standard in methanol solvent for calibration. Accustandard stock number AS-E0004

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QC Requirements

QC	DESCRIPTION	FREQUENCY	CRITERIA	CORRECTIVE ACTION
MB	Method blank; Organic-free reagent water	1/10 sample	< 20 ppb Which is the amount of the lowest std.	Investigate system contamination; correct the problem and reanalyze the samples.
ICV	Initial Calibration verification, Benzene: 100 ppb.	1/10 sample	20% deviation from actual value. (80 ppb-120 ppb)	Check instrument malfunction. Correct the instrument problem and reanalyze. Perform initial calibration after the third failure.

CalculationsDeviation(%)

$$D = \frac{|X - T|}{T} \times 100$$

Where, D = percent deviation
X = the observed value for the measurement
T = "actual" value for the measurement

Precision and Accuracy

None

Reporting

1. Analytical reporting limit is 20 ppb (ug/L).
2. All verified results must be entered in LIMS and/or the appropriate non-routine log sheet upon completion.
3. For the purpose of reporting to applicable agencies, preliminary results from LIMS may be used to prevent greater than 48hr delay in reporting time.

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LABORATORY STANDARD OPERATING PROCEDURES

VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

9.0 PROCEDURES*

9.1 *Standard Preparation*

9.1.2 Calibration Standards

Fill 40 mL VOA vials with reagent water, taking care not to trap any air in the vial. Add the Calibration Standard (AS-E0004) to the vial using a clean microsyringe basing on following list to prepare the calibration standards:

	Stock solution
Blank	0.0 uL
20 ppb	0.8 uL
50 ppb	2.0 uL
100 ppb	4.0 uL
250 ppb	10.0 uL
500 ppb	20.0 uL
1000 ppb	40.0 uL

9.1.3 Initial Calibration Verification Standard: Upon opening the certified benzene standard (e.g. M502-01-10X), transfer to a 1 mL reaction vial and cap with a syringe valve. This standard may be good up to 6 months, but should be replaced if ICV fails. Fill a 40 mL VOA vial with Reagent water, taking care not to trap any air in the vial. Add 2.0 uL to the vial using a clean microsyringe for a 100 ppb std.

9.1.4 All standard preparation activities must be logged in the standards logbook.

9.2 *Instrument Setup*

9.2.1 GC/FID is configured as follows:

Inlet

Mode: split Gas: Helium
 Heater: 250 °C
 Preaature: 6.9 psi
 Total Flow: 102 mL/min
 Split ratio: 9:1
 Split Flow: 90 mL/min

Column

Mode: Const Pressure
 Pressure: 6.9 psi
 Flow: 10.0 mL/min
 Average Velocity: 66 cm/sec.

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Oven:

Setpoint: 50 °C

Oven Maximum: 300 °C

Equilibration: 0.5 min

Oven Ramp	°C/min	Next °C	Hold min	Run time
Initial		50	2.00	2.00
Ramp 1	20.00	250	9.00	16.00
Post Run		50	0	16.00

Detector:

Heater: 280 °C

H2 flow 40.0 mL/min

Air Flow 450 mL/min

Makeup Flow (He): 25.0 mL/min

Flame: On

9.2.2 Purge-and-Trap (OI 4560):

Purge flow	35 mL/min
Purge	11 min at 25 °C
Desorb	2 min at 180 °C
Bake	10 min at 185 °C
Transfer line	100 °C
Valve	100 °C
Sample size	5 mL
Drypurge	1 min

9.3 *Re- Calibration*

9.3.1 Recalibration is recommended once a year or when new ICV fails 20% recovery. Prior to re-calibration, GC and samplers must be baked out. Raise the GC oven temp to 250°C and bake for at least 30 min. It is also necessary to cycle the purge-and-trap through one bake cycle to ensure that there are no contaminants present in the trap. After 30 min lower GC temp to 50°C.

9.3.2 Prepare the calibration standards as outlined in 9.1.2 just prior to analysis. Load the standard vials in the correct slots of the autosampler and prepare following re-calibration sequence in the **Method and Run control** window of the Chemstation Software. Start the sequence by following steps from 9.4.4 to 9.4.9.

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Re-calibration sequence:

Line	Vial	Sample Name	Method Name	Inj/Vial	Sample Type	Cal Level	Update RF	Update RT
1	1	MB (Blank)	TACB-VOC	1	Sample			
2	1	20 ppb	TACB-VOC	1	Calibration	1	Replace	No Update
3	1	50 ppb	TACB-VOC	1	Calibration	2	Replace	No Update
4	1	100 ppb	TACB-VOC	1	Calibration	3	Replace	Replace
5	1	250 ppb	TACB-VOC	1	Calibration	4	Replace	No Update
6	1	500 ppb	TACB-VOC	1	Calibration	5	Replace	No Update
6	1	1000 ppb	TACB-VOC	1	Calibration	6	Replace	No Update

- 9.3.3 In the data analysis window of the Chemstation Software, load the chromatogram for the blank (reagent water). Check to see that there are no contamination peaks. For some low level analysis, a small peak will show at the beginning of the run. This is due to a pressure change on column when the sampler injects. If a calibration exists, the run should read less than two times the lower analytical limit for the analysis.
- 9.3.4 Open the calibration file and check to see that there are only two significant peaks. The first peak will be the solvent or methanol peak. The peaks should be sharp with minimum tailing. If there are more than two peaks, the calibration stock or reagent water is contaminated. Correct this condition and begin the calibration again.
- 9.3.5 Once the calibration files are integrated, the results must be assembled in a linear calibration curve. Display the calibration curve and check that the fit is at least $R^2 > 0.990$. Calculate a new area reject from the Calibration curve plot "AREA= number value x amount + 0" (the number value is the slope of the calibration curve. The amount is 20). Enter this new area into the integration events table in the value line for area reject.
- 9.3.6 Calibration should be set to calculate uncalibrated peaks using compound benzene. The parameters should sum all the individual peak areas of chromatogram.
- 9.4 **Sample Analysis**
- 9.4.1 **Composite sample:** A volumetric composite is performed by combining the chilled (4°C) samples collected during a weeklong sampling event in a chilled jar that is surrounded by ice. This must be performed quickly to prevent loss of volatile component. The sample is mixed and transferred to 40mL VOA.

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Note: The volumetric composite may not reflect the true emissions over a week long period due to fluctuations in flow rate of the stream to be tested.

- 9.4.2 For grab samples, directly use the vial that the sample was received in.
- 9.4.3 Load the samples in the autosampler racks noting their positions.
- 9.4.4 Bring up the window P & T 6890C (online): Method & Run control by Click Start / Program/HP Chemstation /instrument online if it is not opened on the computer monitor.
- 9.4.5 Click Sequence/Load Sequence to load an existing sequence.
- 9.4.6 Click Sequence/Sequence Parameter to change the Subdirectory to today's date.
- 9.4.7 Click Sequence/Sequence Table to edit the sequence at the data station.
Enter the sample information in a sequence file located in the data station. Be sure that the vial positions correspond with vial locations and the correct method is chosen for the analysis

Following sequence table is an example:

Line	Vial	Sample Name	Method Name	Inj/Vial	Sample Type
1	1	MB(Blank)	TACB-VOC	1	Sample
2	1	ICV	TACB-VOC	1	Sample
3	1	OL1 CWR 2/5	TACB-VOC	1	Sample
4	1	OL1 CWR 2/5	TACB-VOC	1	Sample
5	1	OL2 CWR 2/08	TACB-VOC	1	Sample
6	1	OL2 CWR 2/08	TACB-VOC	1	Sample
7	1	GHU CWR 2/5	TACB-VOC	1	Sample
8	1	GHU CWR 2/5	TACB-VOC	1	Sample
9	1	T971 2/1-2/7	TACB-VOC	1	Sample
10	1	3T971 2/1-2/7	TACB-VOC	1	Sample
11	1	CWTP 2/1-2/7	TACB-VOC	1	Sample
12	1	LLDPE CWR 2/5	TACB-VOC	1	Sample
13	1	MB	TACB-VOC	1	Sample
14	1	ICV	TACB-VOC	1	Sample
15	1	Sample A	TACB-VOC	1	Sample
16	1	Sample B	TACB-VOC	1	Sample

Note: Method blank and calibration verification need be run every 10 samples.

- 9.4.8 Press Run Sequence button. Now system is ready and waiting for Purge-and-trap device to start.
- 9.4.9 Purge-and-trap device preparation:
 (1) Push SPL Button on the front panel, the window will show: L551 start: end:
 (2) Set the start and end positions that need match with actual sample position and run sequence, use arrow ON button and OFF button to switch between start and end, then use keypad to key in position number.

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(3) Press Enter key, then press Clear button, then press Start button to run the sequence.

- 9.4.10 Once data have been generated, check that the chromatograms have been integrated correctly. Samples that are 10 % out of the analytical range for the determination must be diluted and re-analyzed using the appropriate methodology (See table 1).

10.0 TRAINING REQUIREMENTS *

Personnel who perform this analysis will be required to complete the following training requirements:

Period	Requirement
Initial	SOP Training, Test, and Job Qualification
Annual Refresher and Procedure Revision	SOP Training and Test
Audit Finding	SOP Training, Test, and Job Qualification

11.0 FLOWCHART

Not applicable

12.0 REFERENCES

1. "Guidelines for preparation of Policies, Guidelines, and Procedures," FPC TQM Manual.
2. Test Method for Evaluating Solid Waste (SW-846), "Determinative Chromatographic Separations," Revision 3, March 2003, Method 8000C.
3. Test Method for Evaluating Solid Waste (SW-846), "purge and Trap for Aqueous Samples," Revision 3, May 2003, Method 5030C.
4. Test Method for Evaluating Solid Waste (SW-846), "Organic Analytes," Revision 4, February 2007, Chapter Four, Sec. 4.1. (for sample storage)

13.0 RECORD RETENTION PERIOD

Records produced using this procedure will be retained for a period of no less than 5 years.

14.0 ATTACHMENTS

Table 1

Figure 1: Chromatogram of Calibration Standard and sample run

Attachment 1: TNRCC Approval Letter.

Department: L.S. & Q.A.

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TABLE 1. Examples of sample dilution

Add the required amount of high concentration sample to a 50 mL volumetric flask, and then bring level to exact 50 mL with organic-free reagent water.

Dilution factor	High concentration sample	Total volume
30000	1.67 μ L	50 mL
20000	2.5 μ L	50 mL
10000	5 μ L	50 mL
5000	10 μ L	50 mL
4000	12.5 μ L	50 mL
3000	16.7 μ L	50 mL
2000	25 μ L	50 mL
1000	50 μ L	50 mL
500	100 μ L	50 mL
400	125 μ L	50 mL
300	167 μ L	50 mL
200	250 μ L	50 mL
100	500 μ L	50 mL
90	556 μ L	50 mL
80	625 μ L	50 mL
70	714 μ L	50 mL
60	833 μ L	50 mL
50	1 mL	50 mL
40	1.25 mL	50 mL
30	1.67 mL	50 mL
20	2.5 mL	50 mL
10	5 mL	50 mL
5	10 mL	50 mL
2	25 mL	50 mL

Figure 1: Sample Chromatogram
 Calibration Standard Run

Department: L.S. & Q.A.

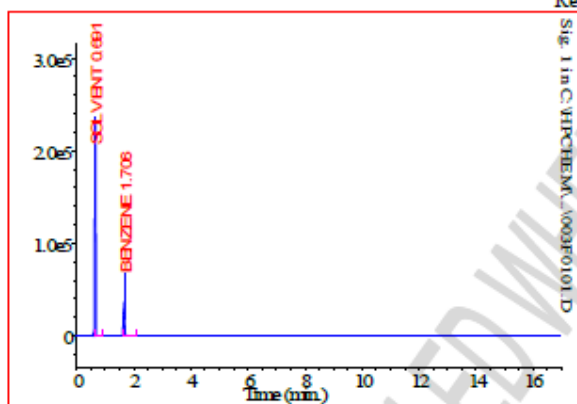
Effective Date: May 25, 2015

Document Code: FTTC4505

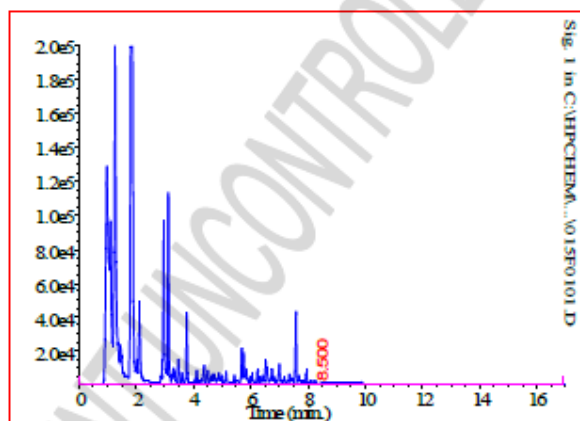
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LABORATORY STANDARD OPERATING PROCEDURES **VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD**

Revision Number 5



Sample Run



Attachment 1: TNRCC Approval Letter

The next page is a copy of the approval letter from the TNRCC.

Department: L.S. & Q.A.

Effective Date: May 25, 2015

Document Code: FTTC4505

File Name: FTTC4505_rev5.docx

LABORATORY STANDARD OPERATING PROCEDURES
VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

John Hall, Chairman
Pam Reed, Commissioner
H. B. "Ralph" Marquez, Commissioner
Dana Pearson, Executive Director



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

January 11, 1996

Mr. Matt Brittan
Technical Department
Formosa Plastics Corporation
Post Office Box 700
201 Formosa Drive
Point Comfort, Texas 77978

RE: Revisions to the Testing Techniques for Sampling Wastewater and Polyolefin Powder
Required by the Texas Natural Resource Conservation Commission (TNRCC)
Permit Nos.: 19167, 19168, 19198, 19199, 19200, 19201, 20203
PSD-TX Permit No. 760M3

Dear Mr. Brittan:

This is in response to your letter dated November 7, 1995, which was related to the proposed procedures for analyzing the volatile organic compound (VOC) content in wastewater and polyolefin powder.

On June 6, 1995, Formosa Plastics, Corporation (Formosa) proposed revisions to a TNRCC approved procedure for analyzing the VOC content in wastewater and polyolefin powder. In a letter dated August 29, 1995, the TNRCC stated multiple concerns related to the proposed analytical revisions. These concerns centered around the operational parameters of the gas chromatograph which was proposed for the required analysis. In the letter dated November 7, 1995, Formosa supplied additional information and comments addressing these issues. After reviewing the information, the TNRCC has determined that Formosa Plastics adequately addressed the concerns and hereby accepts the proposed VOC sampling and analysis plan as written.

If you have questions, please contact me at (512) 239-1740.

Sincerely,


Terry L. Blodgett
Case Team, Engineering Services Section
Enforcement Division

cc: Mr. Charlie Spiekerman, Regional Air Program Manager, Corpus Christi

P.O. Box 13987 • Austin, Texas 78711-3987 • 512/239-1000
printed on recycled paper using soybased ink

Department: L.S. & Q.A.

Effective Date: May 25, 2015

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LABORATORY STANDARD OPERATING PROCEDURES

VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

TEXAS AIR CONTROL BOARD

12124 PARK 35 CIRCLE, AUSTIN, TEXAS 78757-5029/86-1000

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 WARREN D. ROBERTS
 MARY ANNE WATTS

December 2, 1992

Mr. John T. Hyak
 Environmental Department
 Formosa Plastics Corporation, Texas
 P.O. Box 700
 201 Formosa Drive
 Point Comfort, Texas 77978

RE: Sampling Procedures for Determination of Volatile Organic Compounds (VOC) in Polyolefin Powder/Pellets, Process Wastewater, and Cooling Tower Water Supplemental Measurement Procedure for Continuous Emission Monitoring Systems (CEMS) Failures Under Texas Air Control Board (TACB) Permits 19166, 19199, and 20203.

Dear Mr. Hyak:

Your letter dated November 2, 1992, in which you requested a review of the sampling methods and supplemental measurements listed above, has been given to me for review and reply.

The method proposed for determining VOC content in polyolefin powder and pellets parallels the "Beverage Can Method" that is currently accepted for use in Texas. There are several minor substitutions in analytical equipment but, after reviewing these substitutions with Mr. Jim Lindgren of the TACB Organic Analysis Laboratory, it was determined that the substitutions should not have a significant bias on the reported data.

The method proposed for determining VOC content in cooling tower water parallels the U. S. Environmental Protection Agency Method 8020A. After comparing the two methods, there were no major deviations identified that would significantly bias the reported data.

In a letter dated October 1, 1992, addressed to Matt Brittain of your staff, I requested several procedure modifications to the supplemental measurement procedure for CEMS failures. After reviewing the revised procedures submitted by Mr. Brittain, I find the revised procedures to be acceptable as written.



Texans working for clean air

Department: L.S. & Q.A.

Effective Date: May 25, 2015

Document Code: FTTC4505

File Name: FTTC4505_rev5.docx

LABORATORY STANDARD OPERATING PROCEDURES
VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number 5

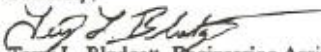
Mr. John T. Hyak

-2-

December 2, 1992

As long as these methods are performed correctly, they should produce reliable and accurate data. Permission is hereby granted to use these methods as proposed. The TACB reserves the right to direct Formosa Plastics Corporation, Texas to revise and/or change any or all of these methods if the TACB deems necessary. There are new, more reliable methods and advances in technology constantly being developed, and these methods may, someday, become obsolete in comparison.

Sincerely,



Terry L. Blodgett, Engineering Assistant
Source Review Section
Source and Mobile Monitoring Division

cc: Mr. Matt Brittain, Technical Department, Formosa Plastic Corporation, Texas
Mr. Jim Lindgren, Chief, Organic Analysis Laboratory

Department: L.S. & Q.A.

Effective Date: May 25, 2015

Document Code: FTTC4505

File Name: FTTC4505_rev5.docx

Appendix A

Acronym List 109

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 ₂ S	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 111

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
2-HDPE	Downstream Pellet Handling	VOC	0.99	4.34	18, 19	3, 7, 18, 19	
3-HDPE	Downstream Pellet Handling	VOC	0.69	3.02	18, 19	3, 7, 18, 19	
3T-501	3T-501 Hexane Tank	VOC	0.31	0.56	6, 17	6, 16, 17	6
3T502	3T-502 Hexane Tank	VOC	0.34	1.01	6, 17	6, 16, 17	6
3T-503	3T-503 Hexane Tank	VOC	0.34	1.01	6, 17	6, 16, 17	6
5T6010	Tank T-501	VOC	0.32	0.53	5, 17	5, 16, 17	5
5T6020	Tank T-502	VOC	0.36	1.12	5, 17	5, 16, 17	5
5T6030	Tank 2T-502	VOC	0.36	1.12	5, 17	5, 16, 17	5
5T6040	Tank T-503	VOC	0.36	1.12	5, 17	5, 16, 17	5
5T6050	Tank 2T-503	VOC	0.36	1.12	5, 17	5, 16, 17	5
V-960	Caustic storage tank	NaOH	0.01	0.01	17	16, 17	
V-961	Caustic storage tank	NaOH	0.01	0.01	17	16, 17	
3V-961	Caustic storage tank	NaOH	0.01	0.01	17	16, 17	
D-301	HDPE Train A Dryer Vent	VOC	44.00	11.80	18, 19	7, 18, 19	

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
2D-301	HDPE Train B Dryer Vent	VOC	44.00		18, 19	7, 18, 19	
3D-301	HDPE Train C Dryer Vent	VOC	44.00		18, 19	7, 18, 19	
F-302	Powder Silo Bag Filter	PM	0.09	0.42	9	9	9
		PM ₁₀	0.09	0.42			
		PM _{2.5}	0.09	0.42			
2F-302	Powder Silo Bag Filter	PM	0.09	0.42	9	9	9
		PM ₁₀	0.09	0.42			
		PM _{2.5}	0.09	0.42			
3F302	Powder Silo Bag Filter	PM	0.16	0.62	9	9	9
		PM ₁₀	0.16	0.62			
		PM _{2.5}	0.16	0.62			
F-401	Powder Feed Hopper Bag Filter	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
2F401	Powder Feed Hopper Bag Filter	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
3F401	Powder Feed	PM	0.01	0.01	9	9	9

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
	Hopper Bag Filter	PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
2F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
3F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
3F708A	Elutriate Bag Filter	PM	1.34	4.33	9, 11	9, 11	9
		PM ₁₀	1.34	4.33			
		PM _{2.5}	1.34	4.33			
F-701	Blend Silo Bag Filter	PM	0.09	0.37	9	9	9
		PM ₁₀	0.09	0.37			
		PM _{2.5}	0.09	0.37			
2F-701	Blend Silo Bag Filter	PM	0.09	0.37	9	9	9
		PM ₁₀	0.09	0.37			

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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 _{2.5}	0.09	0.37			
3F701A	Blending Silo Bag Filter	PM	0.35	1.54	9	9	9
		PM ₁₀	0.35	1.54			
		PM _{2.5}	0.35	1.54			
3F701B	Blending Silo Bag Filter	PM	0.35	1.54	9	9	9
		PM ₁₀	0.35	1.54			
		PM _{2.5}	0.35	1.54			
F-708A	Hopper Car Bag Filter F-708A	PM	0.05	0.21	9	9	9
		PM ₁₀	0.05	0.21			
		PM _{2.5}	0.05	0.21			
F-708B	Hopper Car Bag Filter F-708B	PM	0.05	0.21	9	9	9
		PM ₁₀	0.05	0.21			
		PM _{2.5}	0.05	0.21			
S-705	Packer Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
2S-705	Packer Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
S-707	Packer Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
2S-707	Packer Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
S-708A	Hopper Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
S-708B	Hopper Silo Cyclone Separator	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
S-709A	Product Silos Cyclone Separator S-709A	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
S-709B	Product Silos Cyclone Separator S-709B	PM	0.06	0.28	9	9	9
		PM ₁₀	0.06	0.28			
		PM _{2.5}	0.06	0.28			
S-405	Recycle Pellet	PM	0.28	0.10	9, 11	9, 11	9

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
	Cyclone	PM ₁₀	0.28	0.10			
		PM _{2.5}	0.28	0.10			
2S405	Recycle Pellet Cyclone	PM	0.28	0.10	9, 11	9, 11	9
		PM ₁₀	0.28	0.10			
		PM _{2.5}	0.28	0.10			
3S405	Recycle Pellet Cyclone	PM	0.28	0.10	9, 11	9, 11	9
		PM ₁₀	0.28	0.10			
		PM _{2.5}	0.28	0.10			
V-102	Catalyst Dip Pot	VOC	0.53	0.03	6, 11	6, 11	6
Z405	Additive Dust Collector	PM	0.02	0.08	9	9	9
		PM ₁₀	0.02	0.08			
		PM _{2.5}	0.02	0.08			
2Z405	Additive Dust Collector	PM	0.02	0.08	9	9	9
		PM ₁₀	0.02	0.08			
		PM _{2.5}	0.02	0.08			
Z410	Powder Vacuum Cleaner	PM	0.01	0.01	9	9	9
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
PO-CT	Cooling Tower	VOC	1.32	5.79	6, 15	6, 15	6, 15
		PM	1.72	4.80			
		PM ₁₀	0.35	1.74			
		PM _{2.5}	0.01	0.01			
		HOCI	0.01	0.01			
H923A	Thermal Incinerator (6),	CO	15.49	-	21, 24, 25, 26, 27, 28, 29, 30, 33,	21, 24, 25, 26, 27, 28, 29, 30, 31, 33	24, 25, 26, 27, 33
		NO _x	10.25	-			
		SO ₂	0.09	-			
		VOC	0.96	-			
		PM	0.96	-			
		PM ₁₀	0.96				
		PM _{2.5}	0.96				
		CO (MSS)	75.00	18.70			
		NO _x (MSS)	-	1.00			
		SO ₂ (MSS)	0.10	0.10			
		VOC (MSS)	-	0.20			
H923B	Thermal Incinerator (6),	CO	15.49	-	21, 24, 25, 26, 27, 28, 29, 30, 33,	21, 24, 25, 26, 27, 28, 29, 30, 31, 33	24, 25, 26, 27, 33
		NO _x	10.25	-			
		SO ₂	0.09	-			

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
		VOC	0.96	-			
		PM	0.96	-			
		PM ₁₀	0.96				
		PM _{2.5}	0.96				
		CO (MSS)	75.00	18.70			
		NO _x (MSS)	-	1.00			
		SO ₂ (MSS)	0.10	0.10			
		VOC (MSS)	-	0.20			
H923A/B	Thermal Incinerators Annual Cap(6)	CO	-	55.97	21, 24, 25, 26, 27, 28, 29, 30, 33,	21, 24, 25, 26, 27, 28, 29, 30, 31, 33	24, 25, 26, 27, 33
		NO _x	-	44.90			
		SO ₂	-	0.38			
		VOC	-	4.19			
		PM	-	4.21			
		PM ₁₀	-	4.21			
		PM _{2.5}	-	4.21			
2F-302B	Powder Silo Bag Filter	PM	0.10	0.45	9	9	9
		PM ₁₀	0.10	0.45			
		PM _{2.5}	0.10	0.45			
3F708B	Railcar Bag	PM	0.52	1.59	9, 11	9, 11	9

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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
	Filter	PM ₁₀	0.52	1.59			
		PM _{2.5}	0.52	1.59			
3V305	Seal Dip Pot	VOC	0.01	0.01	6, 11	6, 11	6
1018	Olefins Flare I	CO	10.31	-	6, 10, 11, 26, 27, 28, 29, 30, 33	6, 10, 11, 26, 27, 28, 29, 30, 31, 33	6, 26, 27
		NO _x	2.02	-			
		SO ₂	0.01	-			
		VOC	13.74	-			
		CO (MSS)	65.30	9.90			
		NO _x (MSS)	9.00	1.50			
		VOC (MSS)	243.20	16.70			
1067	Olefins Flare II	CO	10.31	-	6, 10, 11, 26, 27, 28, 29, 30, 33	6, 10, 11, 26, 27, 28, 29, 30, 31, 33	6, 26, 27
		NO _x	2.02	-			
		SO ₂	0.01	-			
		VOC	13.74	-			
		CO (MSS)	65.30	9.90			
		NO _x (MSS)	9.00	1.50			
		VOC (MSS)	243.20	16.70			
1018 & 1067	Olefins Flare I & II Annual Cap	CO	-	27.11	6, 10, 26, 27, 28, 29, 30, 33	6, 10, 26, 27, 28, 29, 30, 31, 33	6, 26, 27
		NO _x	-	5.32			

Major NSR Summary Table

Permit Numbers: 19201 and PDSTX1232					Issuance Date: September 6, 2019		
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	-	0.01			
		VOC	-	36.10			
PE-FUG	Plant Process Fugitives (5)	VOC	23.42	102.59	6, 10, 12, 13, 14	6, 10, 12, 13, 14	6
		Cl ₂	0.01	0.02			
Maintenance, Startup, And Shutdown (MSS)							
DRYRVNTMSS	Dryer Vent MSS Activities	VOC	132.00	37.50	28	28	
HDPE-MAINT	MSS to Atmosphere	VOC	80.60	2.50	28, 31	28, 31	
		PM	0.20	0.30			
		PM ₁₀	0.20	0.30			
		PM _{2.5}	0.20	0.30			
MSS HOURLY CAP-VOC	Total planned MSS VOC emissions from 1018, 1067, H923A, and H923B	VOC	66.00	-	10, 28, 29, 30	10, 28, 29, 30, 31	
MSS HOURLY CAP-SO ₂	Total planned MSS SO ₂ emissions from H923A and H923B	SO ₂	0.10	-			

- (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
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
 - NaOH - sodium hydroxide
 - HOCl - hypochlorous acid
 - Cl₂ - chlorine
- (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) The emissions from the incinerator stacks are the total emissions related to disposal of waste gases from the high density polyethylene, linear low density polyethylene and polypropylene plants.

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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
1	Flash Tank Cleanout Screen	VOC	2.30	0.14	4	4	4
2	Powder Storage Tank	PM	0.05	0.22	7	7	7
		PM ₁₀	0.05	0.22			
		PM _{2.5}	0.05	0.22			
3	Pellet Dryer	VOC	0.66	2.90	3, 4, 15, 16	3, 4, 5, 15, 16	3, 4, 16
004a	Pellet Blending and Storage I (6) Pellet Blending and Storage II (6)	VOC	1.38	6.05	3, 4, 7, 15, 16	3, 4, 5, 7, 15, 16	3, 4, 7, 16
004b		PM	0.26	1.15			
		PM ₁₀	0.26	1.15			
		PM _{2.5}	0.26	1.15			
005a	Pellet Loadout Filter I (7) Pellet Loadout Filter II (7) Pellet Loadout Filter III (7) Pellet Loadout Filter IV (7)	VOC	1.38	6.05	3, 4, 7, 15, 16	3, 4, 5, 7, 15, 16	3, 4, 7, 16
005b		PM	0.50	2.18			
005c		PM ₁₀	0.50	2.18			
005d		PM _{2.5}	0.50	2.18			

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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
6	Process Fugitives (5)	VOC	15.66	68.61	3, 4, 13, 14	3, 4, 13, 14	3, 4, 13,
11	Fluff Hopper Car Loading Filter	PM	0.04	0.15	7	7	7
		PM ₁₀	0.04	0.15			
		PM _{2.5}	0.04	0.15			
12	Pellet Hopper Car Loading Filter	PM	0.01	0.01	7	7	7
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
13	Extruder Feed Tank Vent	VOC	0.27	1.18	3, 4, 7, 16	3, 4, 7, 16	3, 4, 7, 16
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
14	Extruder Building Vacuum Filter	PM	0.01	0.04	7	7	7
		PM ₁₀	0.01	0.04			

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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 _{2.5}	0.01	0.04			
16	HEPA Filter Vent Activator	CO	3.69	7.12	7	7	7
		PM	0.01	0.01			
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
17	Quench Station Vent	PM	0.01	0.01	7	7	7
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
18	Raw Catalyst Charge Bldg. Filter	PM	0.01	0.01	7	7	7
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
19	Drum Unloading Enclosure Filter	PM	0.01	0.01	7	7	7
		PM ₁₀	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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 _{2.5}	0.01	0.01			
20	Catalyst Fugitives	PM	0.01	0.01	7	7	7
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
H-601	Catalyst Activator Direct Heater	VOC	0.09	0.30	10	10	
		NO _x	0.96	3.27			
		CO	1.10	3.73			
		PM	0.12	0.42			
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.12	0.42			
		SO ₂	0.01	0.03			
IC4LOAD	Isobutane Unloading Line Vent	VOC	0.01	0.01			
1018	Olefins I	VOC	4.75	-	4, 8, 9, 10, 18, 19, 24,	4, 8, 9, 10, 17, 18, 19,	4, 9

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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
	Elevated Flare (8)	NO _x	2.59	-	25	24, 25, 26	
		CO	13.20	-			
		SO ₂	0.02	-			
	Olefins I Elevated Flare MSS (8)	VOC	699.88	-			
		NO _x	44.75	-			
		CO	299.66	-			
		SO ₂	0.10	-			
1067	Olefins II Elevated Flare (8)	VOC	4.75	-	4, 8, 9, 10, 18, 19, 24, 25	4, 8, 9, 10, 17, 18, 19, 24, 25, 26	4, 9
		NO _x	2.59	-			
		CO	13.20	-			
		SO ₂	0.02	-			
	Olefins II Elevated Flare MSS (8)	VOC	699.88	-			
		NO _x	44.75	-			

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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	299.66	-			
		SO ₂	0.10	-			
1018 and 1067	Olefins I and II Elevated Flares Annual Cap	VOC	-	20.81	4, 8, 9, 10, 18, 19, 24, 25	4, 8, 9, 10, 17, 18, 19, 24, 25, 26	4, 9
		NO _x	-	11.35			
		CO	-	57.84			
		SO ₂	-	0.10			
	Olefins I and II Elevated Flares MSS Annual Cap	VOC	-	7.72			
		NO _x	-	6.63			
		CO	-	34.58			
		SO ₂	-	0.06			
PP2-CT	Cooling Tower	VOC	1.32	5.79	4, 11, 12	4, 11, 12	4
		PM	1.72	4.80			
		PM ₁₀	0.40	1.74			

Major NSR Summary Table

Permit Numbers: 40157 and PSDTX1222					Issuance Date: February 7, 2020		
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 _{2.5}	0.01	0.01			
		Chlorine Compounds	0.01	0.01			
006MSS	Hydroblasting	VOC	963.90	4.30	18, 19, 24	17, 18, 19, 20, 24, 26	
	Other MSS	VOC	94.00	2.49			
		PM	0.60	0.03			
		PM ₁₀	0.60	0.03			
		PM _{2.5}	0.60	0.03			

- (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
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 CO - carbon monoxide
- (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) The EPNs 004a and 004b, Pellet Blending and Storage, are two identical vent stack systems. Maximum hourly and annual emissions are for both systems combined.
- (7) The EPNs 005a, 005b, 005c, and 005d, Pellet Loadout Filter System, are two identical sets of dual vent stacks. Maximum hourly and annual emissions are for both sets combined.

- (8) The vents from the HDPE II unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:
- (i) All vents from the HDPE II unit may vent to EPN 1018 provided no vents from the HDPE II unit are venting at the same time to EPN 1067.
 - (ii) All vents from the HDPE II unit may vent to EPN 1067 provided no vents from the HDPE II unit are venting at the same time to EPN 1018.

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-003	Extruder Feed Bin No. 1	VOC	2.37	9.72	4, 5	4, 5	4, 5
LL-004	Extruder Feed Bin No. 2	VOC	2.37	9.72	4, 5	4, 5	4, 5
LL-005	Catalyst Filling Vent No. 1	VOC	9.65	0.43	5, 17, 18	5, 17, 18	5, 17, 18
LL-006	Catalyst Filling Vent No. 2	VOC	8.80	0.10	5	5	5
LL-007	Buffer Silo No. 1	VOC	2.28	6.48	5, 8	5, 8	5, 8
		PM	0.10	0.46			
		PM ₁₀	0.10	0.46			
		PM _{2.5}	0.10	0.46			
LL-008	Powder Bin No. 1	VOC	1.20	5.28	5, 8, 17, 18	5, 8, 17, 18	5, 8, 17, 18
		PM	0.10	0.46			
		PM ₁₀	0.10	0.46			
		PM _{2.5}	0.10	0.46			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-011	Blending Silo No. 1	PM	0.18	0.78	8	8	8
		PM ₁₀	0.18	0.78			
		PM _{2.5}	0.18	0.78			
LL-012	Blending Silo No. 2	PM	0.18	0.78	8	8	8
		PM ₁₀	0.18	0.78			
		PM _{2.5}	0.18	0.78			
LL-013	Product Silo No. 1	PM	0.13	0.58	8	8	8
		PM ₁₀	0.13	0.58			
		PM _{2.5}	0.13	0.58			
LL-014	Product Silo No. 2	PM	0.13	0.58	8	8	8
		PM ₁₀	0.13	0.58			
		PM _{2.5}	0.13	0.58			
LL-015	Hopper Car Silo No. 1 and Hopper Car Loading No. 1	PM	0.18	0.79	8	8	8
		PM ₁₀	0.18	0.79			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM _{2.5}	0.18	0.79			
LL-016	Hopper Car Silo No. 2 and Hopper Car Loading No. 2	PM	0.18	0.79	8	8	8
		PM ₁₀	0.18	0.79			
		PM _{2.5}	0.18	0.79			
LL-017	Truck Silo No. 1	PM	0.26	1.16	4, 8	4, 8	4, 8
		PM ₁₀	0.26	1.16			
		PM _{2.5}	0.26	1.16			
LL-019	Auto-Packer Silo No. 1	PM	0.26	1.16	8	8	8
		PM ₁₀	0.26	1.16			
		PM _{2.5}	0.26	1.16			
LL-023	Additive Mix Tanks Bag Filter	PM	0.01	0.02	8	8	8
		PM ₁₀	0.01	0.02			
		PM _{2.5}	0.01	0.02			
LL-025	Master Batch No. 1	PM	0.06	0.24	8	8	8

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM ₁₀	0.06	0.24			
		PM _{2.5}	0.06	0.24			
LL-026	Master Batch No. 2	PM	0.06	0.24	8	8	8
		PM ₁₀	0.06	0.24			
		PM _{2.5}	0.06	0.24			
Process	Process Fugitives (5)	VOC	9.97	43.68	5, 6, 14, 15, 16	5, 6, 14, 15	5, 6, 14
LI-01A/B	Incinerator	VOC	2.21	9.68	5, 6, 11, 12, 17, 18, 19, 21, 22, 27	5, 6, 11, 12, 17, 18, 19, 21, 22, 27	5, 6, 12, 17, 18, 19
		PM	1.38	6.02			
		PM ₁₀	1.38	6.02			
		PM _{2.5}	1.38	6.02			
		NO _x	7.57	33.17			
		CO	13.59	59.52			
		SO ₂	0.03	0.12			
LI-01A/B	Incinerator MSS	VOC (7)	1,303.70	14.93	21, 27	20, 21, 27	

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NO _x (7)	79.30	1.04			
		CO (7)	573.00	7.53			
1018	Olefins I Elevated Flare (6)	VOC	65.07	6.39	5, 6, 9, 10, 12, 21, 22, 27	5, 6, 9, 10, 12, 21, 22, 27	5, 6, 12
		VOC MSS (7)	1303.70	14.93			
		NO _x	5.31	0.58			
		NO _x MSS (7)	79.30	1.04			
		CO	38.24	3.99			
		CO MSS (7)	573.00	7.53			
1067	Olefins II Elevated Flare (6)	VOC	65.07	6.39	5, 6, 9, 10, 12, 21, 22, 27	5, 6, 9, 10, 12, 21, 22, 27	5, 6, 12
		VOC MSS (7)	1303.70	14.93			
		NO _x	5.31	0.58			
		NO _x MSS (7)	79.30	1.04			
		CO	38.24	3.99			
		CO MSS (7)	573.00	7.53			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-CT	LLDPE Cooling Tower	VOC	1.77	7.72	6, 13	6, 13	
		PM	0.42	1.85			
		PM ₁₀	0.33	1.44			
		PM _{2.5}	0.01	0.01			
LL-009	Weight Feeder Surge Hopper F1-850	PM	0.01	0.05	8	8	8
		PM ₁₀	0.01	0.05			
		PM _{2.5}	0.01	0.05			
LL-010	Weight Feeder Surge Hopper F2-850	PM	0.01	0.05	8	8	8
		PM ₁₀	0.01	0.05			
		PM _{2.5}	0.01	0.05			
LL-030	Train 1 Re-Run Filter S1-855	PM	0.27	1.07	8	8	8
		PM ₁₀	0.27	1.07			
		PM _{2.5}	0.27	1.07			
LL-031	Train 2 Re-Run Filter	PM	0.27	1.07	8	8	8

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	S2-855	PM ₁₀	0.27	1.07			
		PM _{2.5}	0.27	1.07			
LL-032	Train 1 Masterbatch Hopper F1-830A/B	PM	0.01	0.03	8	8	8
		PM ₁₀	0.01	0.03			
		PM _{2.5}	0.01	0.03			
LL-033	Train 2 Masterbatch Hopper F2-830A/B	PM	0.01	0.03	8	8	8
		PM ₁₀	0.01	0.03			
		PM _{2.5}	0.01	0.03			
LL-034	Train 1 Q1-830 Feeder Filter S1-830	PM	0.01	0.01	8	8	8
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
LL-035	Train 2 Q2-830 Feeder Filter S2-830	PM	0.01	0.01	8	8	8
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-036	Train 1 F1-810 Vent Filter S1-811	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-037	Train 2 F2-810 Vent Filter S2-811	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-038	Train 1 F1-812 Vent Filter S1-812	PM	0.02	0.07	8	8	8
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.02	0.07			
LL-039	Train 2 F2-812 Vent Filter S2-812	PM	0.02	0.07	8	8	8
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.02	0.07			
LL-040	Train 1 F1-800 Vent Filter S1-800.1	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM _{2.5}	0.02	0.06			
LL-041	Train 2 F2-800 Vent Filter S2-800.1	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-042	Train 1 F1-810 Feeder Filter Q1-810	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-043	Train 2 F2-810 Feeder Filter Q2-810	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-044	Train 1 F1-856 Feeder Filter Q1-856	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-045	Train 2 F2-856	PM	0.02	0.06	8	8	8

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Feeder Filter Q2-856	PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-046	Train 1 X1-856 Feeder Filter C1-856	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-047	Train 2 X2-856 Feeder Filter C2-856	PM	0.02	0.06	8	8	8
		PM ₁₀	0.02	0.06			
		PM _{2.5}	0.02	0.06			
LL-048	F1-325 Waste Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-049	F2-325 Waste Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-050	S1-412 Waste Powder	PM ₁₀	0.01	0.04	5, 8	5, 8	5, 8
		PM _{2.5}	0.01	0.04			
		VOC	0.01	0.01			
		PM	0.01	0.04			
LL-051	S2-412 Waste Powder	PM ₁₀	0.01	0.04	5, 8	5, 8	5, 8
		PM _{2.5}	0.01	0.04			
		VOC	0.01	0.01			
		PM	0.01	0.04			
LL-052	S1-805 Sieve Clean-Out	PM ₁₀	0.01	0.04	5, 8	5, 8	5, 8
		PM _{2.5}	0.01	0.04			
		VOC	0.01	0.01			
		PM	0.01	0.04			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-053	S2-806 Sieve Clean-Out	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-054	F1-806 Refuse Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-055	F2-806 Refuse Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-056	F1-553 Refuse Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-057	F2-553 Refuse Hopper	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.01	0.04			
		PM ₁₀	0.01	0.04			
		PM _{2.5}	0.01	0.04			
LL-059	F2-800 Bag Filter	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.02	0.07			
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.02	0.07			
LL-060	F2-810 Bag Filter	VOC	0.01	0.01	5, 8	5, 8	5, 8
		PM	0.02	0.07			
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.02	0.07			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LL-061	C1-841 Pellet Dryer	PM	0.01	0.02	8	8	8
		PM ₁₀	0.01	0.02			
		PM _{2.5}	0.01	0.02			
LL-062	C2-841 Pellet Dryer	PM	0.01	0.02	8	8	8
		PM ₁₀	0.01	0.02			
		PM _{2.5}	0.01	0.02			
LL-063	S1-847 Bag Filter	PM	0.01	0.03	8	8	8
		PM ₁₀	0.01	0.03			
		PM _{2.5}	0.01	0.03			
LL-064	S2-847 Bag Filter	PM	0.01	0.03	8	8	8
		PM ₁₀	0.01	0.03			
		PM _{2.5}	0.01	0.03			
LL-065	C1-400 Compressor Lube Oil Container	VOC	0.45	1.52			
LL-066	C2-400 Compressor	VOC	0.45	1.52			

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Lube Oil Container						
LL-067	FO-912 Hexene Storage Tank	VOC	0.53	0.81	5, 24	5, 24	5
LL-068	FO-913 Hexene Storage Tank	VOC	0.53	0.81	5, 24	5, 24	5
LL-069	Hopper Car Unloading Bag Filter	PM	0.03	0.09	8	8	8
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.03	0.09			
LL-070	Elutriator Cyclone S1-897	PM	0.14	0.60	8	8	8
		PM ₁₀	0.09	0.41			
		PM _{2.5}	0.02	0.09			
LL-071	Elutriator Cyclone S2-897	PM	0.14	0.60	8	8	8
		PM ₁₀	0.09	0.41			
		PM _{2.5}	0.02	0.09			
Maintenance, Startup, and Shutdown (MSS)							

Major NSR Summary Table

Permit Number 20203 and PSDTX1224					Issuance Date: August 11, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
LLDPE-MNT	MSS to Atmosphere	VOC MSS	226.2	3.59	20, 21, 22, 23, 24	20, 21, 22, 23, 24	
		PM MSS	1.70	0.04			
		PM ₁₀ MSS	1.70	0.04			
		PM _{2.5} MSS	1.70	0.04			
LLDPE-TMP	MSS from Temporary Sources	NO _x MSS (7)	79.30	1.04	20, 21	19, 20, 21	
		CO MSS (7)	573.00	7.53			
		VOC MSS (7)	1303.70	14.93			

(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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - 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

(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) The emissions contributed only from this permitted facility which is the Linear Low Density Polyethylene (LLDPE) unit. The vents from the LLDPE unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:

A. All vents from the LLDPE unit can vent to EPN 1018 with no vents from the LLDPE unit venting at the same time to EPN 1067.

B. All vents from the LLDPE unit can vent to EPN 1067 with no vents from the LLDPE unit venting at the same time to EPN 1018.
This exception does not exempt the holder of this permit from the requirements of 30 TAC §§ 101.201 and 101.211.

(7) TPY allowable emission rates for CO MSS, NO_x MSS, and VOC MSS reflect combined cap for control device EPNs LI-01A/B, LLDPE-TMP, 1018 and 1067.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Formosa Plastics Corporation, Texas
Authorizing the Construction and Operation of
Formosa Point Comfort Plant
Located at Point Comfort, Calhoun County, Texas
Latitude 28° 41' 20" Longitude -96° 32' 50"

Permit: 19201 and PSDTX1232

Revision Date: September 6, 2019

Expiration Date: August 12, 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.

Special Conditions

Permit Numbers 19201 and PSDTX1232

Emissions 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.
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.
3. Annual production from the permitted unit will not exceed 1752 million (MM) pounds per year. The facility will produce copolymers and homopolymers to the hourly throughput constraints contained in the Table 2 submitted with application form PI-1 dated July 13, 2016. Production records shall be updated monthly with the pounds of each type of polymer produced during the previous month and rolling 12 months to date.
4. Total volatile organic compounds (VOC) content of the polymer after the Dryers (EPNs D-301, 2D-301 and 3D-301) shall not exceed 90 pounds (lbs) of VOC per million (MM) pounds of polymer on a maximum hourly basis. Total VOC emitted to the atmosphere downstream from the dryers shall not exceed 75 lbs of VOC per MM/lbs of product on an annual average basis.

Federal Applicability

5. 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):
 - A. Subpart A, General Provisions.
 - B. 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
 - C. Subpart DDD Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry
6. 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:
 - A. Subpart A, General Provisions.
 - B. Subpart FFFF, Miscellaneous Organic Chemical Manufacturing.

Operational Standards

7. Propylene and butene may not be jointly used as process copolymers. The copolymer usage shall be recorded daily during operation of this facility. All records of copolymer usage shall be dated for each day this facility is operated and this record shall be made readily available to the Executive

Director of the Texas Commission on Environmental Quality (TCEQ) or his designated representative upon request.

8. Except as allowed by Special Condition 27, Dryer Vents (D-301, 2D-301, and 3D-301) shall be routed to a thermal incinerator designated as Emission Point Numbers (EPNs) H923A or H923B. Otherwise, Dryer Vents (D-301, 2D-301, and 3D-301) shall only be vented directly to the atmosphere when the VOC concentration of the vent streams reaches 25 percent of the lower explosive level.
9. The following steps shall be performed, at a minimum, to ensure the proper operation of each baghouse:
 - A. The baghouse pressure drop shall be recorded continuously for each baghouse during operation of this facility. All records of baghouse pressure drop shall be dated for each day this facility is operated and this record shall be made readily available to the Executive Director of the TCEQ or his designated representative upon request.
 - B. When there are visible stack emissions from a baghouse, the process shall be shut down, and the entire baghouse shall be tested/inspected and failed or damaged parts shall be repaired or replaced.
 - C. A spare parts inventory for each baghouse shall be maintained at the site of this facility.
 - D. The TCEQ Regional Director shall be notified as soon as possible of any baghouse system malfunction that results in visible emissions.
10. Flares (EPN 1018 and 1067) shall be designed and operated in accordance with the following requirements:
 - A. The flare systems shall be designed such that the combined assist natural gas and waste gas stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per shall be performed 40 CFR § 60.18(f) if requested by the appropriate TCEQ Regional Office to demonstrate compliance with these requirements.
 - B. The flares 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 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 flares 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.
 - D. The permit holder shall install a continuous flow monitor that provides a record of the vent stream flow to that flare. The flow monitor sensor 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. 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 on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.

The monitors 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 actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes.

- E. For each flare, the permit holder shall install a calorimeter that provides a record of the Btu content of the vent stream to the flare. The calorimeter 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 analyzed.

The calorimeters shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

The calorimeters 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 determined in accordance with 40 CFR §60.18(f)(3) shall be recorded at least once every 15 minutes.

- F. The vents from the HDPE I unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:
- (1) All vents from the HDPE I unit may vent to EPN 1018 provided no vents from the HDPE I unit are venting at the same time to EPN 1067. The HDPE I unit may vent to EPN 1018 for no more than 5,256 hours per year.
 - (2) All vents from the HDPE I unit may vent to EPN 1067 provided no vents from the HDPE I unit are venting at the same time to EPN 1018. The HDPE I unit may vent to EPN 1067 for no more than 5,256 hours per year.

Records of when the HDPE I unit vents to EPN 1018 or EPN 1067 and the duration of the venting shall be kept on site to demonstrate compliance with Special Condition 10F.

11. The following operating restrictions apply to this permit.
- A. Elutriate Bag Filter (EPN 3F708A), Railcar Bag Filter (EPN 3F708B), Olefins Flare I and II (EPNs 1018, 1067, and 1018&1067) shall operate no more than 7500 hours per year.
 - B. Recycle Pellet Cyclone (EPNs S-405, 2S405, 3S405) and Powder Vacuum Cleaner (EPN Z410) shall operate no more than 730 hours per year.
 - C. Catalyst Dip Pot (EPN V-102) and Seal Dip Pot (EPN 3V305) shall operate no more than 100 hours per year.

Fugitive Emission Monitoring

12. Piping, Valves, Connectors, Pumps, Agitators, and Compressors — 28VHP

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 Volatile Organic Compound (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 readily available upon request.

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

- (1) piping and instrumentation diagram (PID);
 - (2) a written or electronic database or electronic file;
 - (3) color coding;
 - (4) a form of weatherproof identification; or
 - (5) designation of exempted process unit boundaries.
- B. 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.
- 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 readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph 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 within the 72 hour 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. 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. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

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. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The 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.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems 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.
- H. Damaged or leaking valves or connectors 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. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced

or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.

- I. 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 within 15 days of the detection of the leak. 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), 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.
 - J. 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.
 - K. Alternative monitoring frequency schedules of 30 TAC §§ 115.352 - 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.
 - 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 (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS) and does not constitute approval of alternative standards for these regulations.
 - M. With respect to Special Condition 12, new and reworked is meant to apply to major changes in piping. It is not intended to apply to minor activities including but not limited to: installation/replacement of small number of valves and flanges; minor repairs; gasket replacement; repair/replacement of small sections of piping, etc. Also, "process pipelines" does not apply to underground process sewer lines, cooling tower water, fire water, etc. Additionally, the requirement for new and reworked buried connectors to be welded will not apply if compliance would require a process unit shutdown or would create a safety issue including, but not limited to, close proximity of other process pipelines and equipment or unsafe access to the piping.
13. In lieu of the 2000 ppmv VOC limit in Paragraph H of Special Condition 12, damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 500 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained.

14. Piping, Valves, Pumps, and Compressors in Chlorine Service – 28AVO

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

- A. Audio, olfactory, and visual checks for leaks within the operating area shall be made once per shift.
- 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.

Cooling Tower

15. The cooling towers (EPN PO-CT) shall be operated and monitored in accordance with the following: **(09/19)**

- A. The holder of this permit shall do monthly cooling tower water monitoring using the El Paso Products Company method of analysis. This method is described in the TCEQ guidance document entitled "Air Quality Permit Technical Guidance for Chemical Sources - Cooling Towers," dated May 1997.

The holder of this permit may use an air stripping system equivalent to the El Paso Products Company method of analysis instead of the system in the first paragraph, provided that the permit holder previously obtains written approval from the TCEQ Office of Air, Air Permits Division.

- B. The holder of this permit shall perform sampling and other testing as necessary to establish the pounds per hour of VOC being emitted into the atmosphere from each cooling tower associated with this permit. All sampling and testing methods shall be subject to approval of the TCEQ Executive Director prior to their implementation. The VOC concentration (ppmv) in the exhaust from the air stripping testing system or equivalent testing system and the corresponding pounds of strippable VOC/gallon (gal) of cooling water shall be reported. These will be used to determine the level (either ppmv or lb/VOC/gal) at which a leak into cooling water will be assumed in the ongoing monitoring program. Within 30 days after completion of sampling, copies of the test report shall be submitted to the TCEQ Corpus Christi Regional Office.
- C. Cooling towers shall each be equipped with drift eliminators having 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.
- D. Total dissolved solids (TDS) shall not exceed 6500 parts per million by weight (ppmw) during operation of the cooling tower. Total dissolved solids shall not exceed 4150 parts per million by weight on a rolling 12 month average. Dissolved solids in the cooling water drift are

considered to be emitted as PM, PM₁₀, and PM_{2.5} as represented in the permit application calculations.

- E. 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 μ mho/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 E(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.
- F. 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 D1125-14 Test Method A (field or routine laboratory testing) or ASTM D1125-14 Test Method B (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 F(1) and F(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.
- G. Emission rates of PM, PM₁₀ and PM_{2.5} shall be calculated using the measured TDS and 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.
- H. The chlorination rate shall be less than 100 lb Cl₂ per hour on a rolling 24-hour average. The chlorination rate shall be less than 10 lb Cl₂ per hour on a rolling 12-month average.
- I. Quality assured (or valid) data must be generated when the cooling tower 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 cooling tower operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

Storage and Loading

16. Tanks are approved to store the liquids on the Approved Product List, Attachment 1
17. Storage tanks are subject to the following requirements: The control requirements specified in parts A–E 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. 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.
 - 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. Tanks shall be constructed or equipped with a connection to a vapor recovery system that routes vapors from the vapor space under the landed roof to a control device.
 - E. 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.
 - F. 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 or loaded, 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.

Emissions from tanks shall be calculated using the methods that were used to determine the MAERT limits in the amendment application (Form PI-1 July 13, 2016). Sample calculations from the application shall be attached to a copy of this permit at the plant site.

- G. Operation without visible liquid leaks or spills shall be maintained at all loading/unloading facilities, regardless of vapor pressure. This does not apply to momentary dripping associated with the initial connection or disconnection of fittings. Sustained dripping from fittings during loading/unloading operations is not permitted. Any liquid spill that occurs during loading/unloading activities shall be reported pursuant to 30 TAC §§ 101.6 or 101.7 and shall be cleaned up as soon as practicable to minimize air emissions.

Compliance

- 18. Ongoing compliance with VOC emission limits for the dryers (EPNs D-301, 2D-301, 3D-301) and polyethylene pellet handling systems (EPNs 2-HDPE and 3-HDPE) will be determined by calculation using weekly production rates and weekly sampling and testing of the polyethylene for residual VOC at the following two locations: immediately after each dryer (D) and at final product loading (P). An approved VOC head space test method shall be used to determine the total residual VOC in a sample. The test method shall be capable of determining the total residual concentrations of VOC species having 12 or fewer carbon atoms. A copy of the approved test method shall be retained at the plant site and attached to a copy of the permit. Separate samples are required for each product type produced during the week.
- 19. Polymer production rates and monitoring records to be maintained at the plant site for five years and made readily available upon request will include (but are not limited to):
 - A. Date and time of sample;
 - B. Actual plant production rate at the time of sample and weekly average production rate;
 - C. Product number and melt index;
 - D. Measured pounds of VOC per million pounds of polymer after the dryer and final product are shipped; the VOC content of the polymer shall be less than 15 ppmw and
 - E. Downstream handling emissions shall be calculated by $(D-P) \times (\text{weekly production})$.
- 20. The holder of this permit shall submit to the TCEQ Corpus Christi Regional Office at their request documentation which demonstrates the permit holder is achieving compliance with all the conditions of the permit. This documentation shall consist of a statement explaining how each requirement in a condition is being met. It will include a sample of each record sheet required to be maintained by any condition and a listing of all testing required with test dates.

Incinerator

- 21. Incinerators (EPNs H923A and H923B) shall be used to burn waste gases originating from this permitted facility. Each incinerator firebox temperature shall be continuously monitored and recorded when each one is in operation.

The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. These records shall be recorded and updated monthly with records kept at the plant site. The temperature measurement device shall be installed, calibrated, maintained and operated according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

Quality assured (or valid) data must be generated when each EPN is operating 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 EPN operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

Each incinerator shall operate with no less than 99.9 percent control in disposing of the VOC captured by the collection system and sent to each incinerator.

22. Each incinerator firebox temperature shall be maintained at not less than 1500°F while waste gas is being fed to each incinerator, except during planned periods of incinerator startup and shutdown and transition between incinerators, not to exceed three hours. Start of incinerator transition begins when valves are opened to begin diverting vent gas flow from one incinerator to the other incinerator and ends when the full waste gas flow is diverted. The temperature shall be maintained at least above that maintained during the last satisfactory stack test completed on each incinerator.
23. The H923A and H923B Incinerators shall each operate at not less than 7.0 percent O₂ and each not more than 45 ppmvd CO, corrected to 0 percent excess air in each incinerator stack while waste gas is being fed to each incinerator, except during planned periods of incinerator startup and shutdown and transition between incinerators, not to exceed three hours.
24. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. The testing for Incinerators H923A and H923B was completed on April 20, 2005 and April 25, 2005 respectively and the test report was submitted to TCEQ Region 14.
 - A. The appropriate TCEQ Regional Office in the region where the source is located 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 TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Manager or the TCEQ Regional Office 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 that must have EPA and TCEQ approval shall be submitted to the TCEQ Compliance Support Division.

- B. Air contaminants emitted from the incinerators to be tested for include (but are not limited to) VOC, nitrogen oxides (NO_x), and CO. Sampling shall be performed using EPA Reference Methods 1 through 4 and 18 or 25A for VOC, Reference Method 7 or 7E for NO_x, and Reference Method 10 for CO.
 - C. Sampling shall occur at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. Additional time to comply with the applicable requirements of 40 CFR Part 60 and 40 CFR Part 61 requires EPA approval, and requests shall be submitted to the TCEQ Regional Office.
 - D. The plant shall operate at maximum production rates 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 plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates are achieved.
 - E. 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 Corpus Christi Regional Office.
 - One copy to EPA, Region 6, Dallas Office.
25. The holder of this permit shall install, calibrate, maintain and operate a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of CO and O₂ from each incinerator designated as EPNs H 923A and H-923B. **(09/19)**
- A. Each CEMS 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, Title 40 Code of Federal Regulation Part 60 (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 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.

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, Section 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 hourly average concentrations at least once everyday, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of pounds per hour at least once every week as follows:

The measured hourly average concentration from the CEMS shall be multiplied by the flow rate measured during the latest stack test performed in accordance with Special Condition No. 24 to determine the hourly emission rate.

- D. All monitoring data and quality-assurance data shall be maintained by the source. 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. Quality-assured (or valid) data must be generated when the high density polyethylene unit is operating 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 high density polyethylene unit operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

- 26. The following requirements apply to capture systems for flares designated as EPNs 1018 and 1067, incinerators designated as EPNs H923A and H923B:

- A. 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; or
Once a year, verify the capture system is leak free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

- B. The control device shall not have a bypass.

or

If there is a bypass for the control device, comply with either of the following requirements:

- (1) Install a flow indicator that records and verifies zero flow at least once every 15 minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
- (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

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

Maintenance, Startup, and Shutdown (MSS)

27. This permit authorizes air emissions from the planned maintenance, startup, and shutdown (MSS) activities identified in the following table performed at the facilities authorized by this permit.

Facilities	Description/ Emissions Activity	EPN
All facilities*	Depressurize, purge, or steam to flare or incinerators, with or without hexane purge, per Special Condition 28	1018 1067 H923A H923B
All facilities*	Degas facilities to atmosphere, after degassing to flare or incinerators, with or without hexane purge, per Special Condition 28	HDPE-MAINT
All facilities*	Fill and/or vent to flare or incinerator during startup	1018 1067 H923A H923B
Reactor startup	Reactor purge during startup	1018 1067 H923A H923B
See Attachment A	Attachment A activities	1018 1067 H923A H923B HDPE-MAINT
Incinerators	Route emissions to flare during planned MSS	1018 1067
Incinerators	Dryer emissions directed to atmosphere during incinerator planned MSS, including incinerator transitions and low-fire operation	DRYRVNTMSS
Incinerators	Curing repaired or replaced refractory	H923A H923B
Incinerators	Startup	H923A H923B
Vacuum trucks	Load and transport liquid to support MSS on permanent facilities	HDPE-MAINT

* - all facilities includes piping

In addition, planned MSS emissions emitted from routine emission points are authorized provided the emissions are compliant with the respective MAERT allowable emission rates and special conditions. This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: vacuum trucks and associated control devices. Emissions from temporary facilities are authorized provided the temporary facility (a) does not

remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility.

Emissions from activities listed on Attachment A may be considered to be equal to the potential to emit represented in the permit amendment application, PI-1 dated January 3, 2008, and updated in subsequent application submittals. The estimated emissions from these activities must be revalidated annually. This revalidation shall consist verifying the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity identified in Attachment C and the emissions associated with it shall be recorded and include at least the following information:

- A. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- B. the type of planned MSS activity and the reason for the planned activity;
- C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- D. the date and time of the MSS activity and its duration;
- E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

28. Except for instrumentation/analyzer maintenance and vacuum trucks, process units and facilities shall be depressurized, degassed, and placed back into service in accordance with the following requirements. **(09/19)**

- A. The process equipment shall be vented to a control device or a controlled recovery system during depressurization.
- B. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment or commencing depressurization, degassing and/or maintenance. Equipment that only contains material with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to the atmosphere after liquids are removed as required by this condition. Liquids must be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
- C. If mixed phase materials must be removed from process equipment during depressurization, liquids removal, or degassing, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. Any vents in the knockout drum or

equivalent must be routed to a control device or a controlled recovery system. Control must remain in place while mixed phase material removal is being performed.

- D. Facilities shall be degassed using practices that ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. Records shall be maintained of the control device or recovery system utilized with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
- E. After degassing in accordance with Special Condition 28.D, the VOC concentration in the facilities being degassed shall be verified to be below 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL) using one of the methods below prior to opening directly to atmosphere.
 - (1) For MSS activities identified in Attachments A and B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere, except as necessary to verify an acceptable VOC concentration and establish isolation of the work area, until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.
 - (2) Documentation shall be maintained of the locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the purge gases. If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 29. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL). Documented plant procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.
- F. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:
 - (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
 - (2) There is not an available connection to a plant control system (flare).
 - (3) There is no more than 50 lb of air contaminant to be vented to atmosphere during shutdown or startup, as applicable.

Except for Attachment A activities, all instances of venting directly to atmosphere per Special Condition 28.F must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the activity record for those planned MSS activities.

29. Air contaminant concentration shall be measured using an instrument/detector meeting one of the following methods:
- A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:
 - B. The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.
 - (1) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
 - C. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.
 - (1) The air contaminant concentration measured must be less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured must be at least 20 percent of the maximum range of the tube.
 - (2) The tube is used in accordance with the manufacturer's guidelines.
 - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:
 - (a) measured contaminant concentration (ppmv) must be less than the release concentration.

Where the release concentration is:

 $10,000 \times \text{the mole fraction of the total air contaminants present in the gas stream that can be detected by the tube.}$

The mole fraction of the air contaminants present that can be detected by the tube may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.
 - D. Lower explosive limit measured with a lower explosive limit detector.
 - (1) The detector shall be calibrated monthly with a certified propane gas standard at 50% of the lower explosive limit (LEL) for propane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
 - (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

- (3) A certified methane gas standard equivalent to 50% of the LEL for propane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for propane.
 - E. As an alternative to an instrument/detector, the analysis may be conducted in a laboratory. Bag samples of the gas discharged may be drawn and taken to a Formosa laboratory to be analyzed by gas chromatography (GC). A minimum of two bag samples shall be drawn approximately ten minutes apart. A Tedlar bag, or a bag appropriate for the material to be sampled, shall be used and shall have a valve to seal gas in the bag. The samples shall be drawn as follows:
 - (1) The sample point on the equipment being cleared shall be purged sufficiently to ensure a representative sample at the sample valve.
 - (2) The sample bag shall be connected directly to the sample valve.
 - (3) The sample valve and sample bag shall be opened to allow the bag to fill to approximately 80% of capacity. The sample connections shall be fitted such that no air is drawn into the sample bag.
 - (4) The two valves shall then be closed to seal the sample in the bag.
 - (5) The sample bag shall then be disconnected and placed in a dark container out of direct sunlight for transport to the analyzer.
 - (6) This process is repeated to collect additional samples.
 - (7) The sample shall be analyzed within 12 hours of collection.

The laboratory GC shall meet or exceed the requirements of 40 CFR 60, Appendix A, Method 18 Sections 6 (Equipment and Supplies), 7 (Reagents and Standards), 9 (Quality Control), and 10 (Calibration and Standards). The sample shall be analyzed per Section 8.2.1.1.2 of Method 18, except the analysis does not need to be performed in triplicate. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
30. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
 - A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC partial pressure greater than 0.50 psi at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
 - B. Equip fill line intake with a “duckbill” or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (1) Prior to initial use, identify any liquid in the truck and the truck identifier (bill of lading or other unique identifier). Record the liquid level and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system. After each liquid transfer, identify the liquid transferred and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system.

- (2) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a "duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (3) If the vacuum truck pump exhaust is controlled with a control device other than an engine or oxidizer, records shall be maintained of VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer, measured using an instrument meeting the requirements of Special Condition 29.A or B.
 - (4) The volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.
31. Bag filter maintenance shall be performed in a manner to minimize particulate matter emissions and minimize down time.
32. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.
33. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition. **(09/19)**

A. Carbon Adsorption System (CAS):

- (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
- (2) The CAS shall be sampled down stream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:
 - (a) It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.
 - (b) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The

basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

- (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 29.A or B.
- (4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. 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 four 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.
- (5) Records of CAS monitoring shall include the following:
 - (a) Sample time and date.
 - (b) Monitoring results (ppmv).
 - (c) Canister replacement log.
- (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30% of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer.

- (1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.
- (2) The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

C. Internal Combustion Engine.

- (1) The internal combustion engine shall have a VOC destruction efficiency of at least 99 percent.
- (2) The engine must have been stack tested with butane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable United States Environmental Protection Agency (EPA) Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack

test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance which may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition 29.A or B are also acceptable for this documentation.

- (3) The engine shall be operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller. Documentation for each AFR controller that the manufacturer's, or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation.
- D. The plant flare system (EPNs 1018 and 1067) shall be operated in accordance with Special Condition 10.
- E. A liquid scrubbing system may be used upstream of carbon adsorption. A single carbon can or a liquid scrubbing system may be used as the sole control device if the requirements below are satisfied.
 - (1) The exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the scrubber.
 - (2) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 29.A or B.
 - (3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded.

Date: September 6, 2019

Permit 19201 and PSDTX1232

Attachment 1

Storage tank throughput and service shall be limited to the following:

Tank Identifier (EPN)	Service	Compound
3T-501	IFR	Hexane
3T-502	IFR	Hexane
3T-503	IFR	Hexane
5T6010	IFR	Hexane
5T6020	IFR	Hexane
5T6030	IFR	Hexane
5T6040	IFR	Hexane
5T6050	IFR	Hexane
V-960	VFR	NaOH
V-961	VFR	NaOH
3V-961	VFR	NaOH

DATE: August 12, 2019

Permit 19201 and PSDTX1232
Attachment A

Inherently Low Emitting Activities

Activity	Emissions			
	VOC	NO _x	CO	PM
Repair/replace baghouses/bag filters				X
Repair/replace filters and strainers	X	X	X	X
Other Attachment A activities with emission rates less than 0.1 pound VOC	X	X	X	X

Date: August 12, 2019

Permit 19201 and PSDTX1232
Attachment B

Routine Maintenance Activities

Cyclone/Elutriator and scrubbers repair/replacement

Vessel, compressor, pump repair/replacement

Pressure storage vessel and floating roof tank repair/replacement

Column, reactor, and heat exchanger repair/replacement

Drum opening

Piping degassing

Date: August 12, 2019

Permit 19201 and PSDTX1232
Attachment C

Significant MSS Activity Summary

The following activities are subject to the full recordkeeping requirements specified by Special Condition 27.

Dryer venting to atmosphere

Directing waste gas to flare rather than incinerator

Startup/shutdown and turnaround

Incinerator curing

Activities not listed on Attachments A and B

Date: August 12, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 19201 and PSDTX1232

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)
2-HDPE	Downstream Pellet Handling	VOC	0.99	4.34
3-HDPE	Downstream Pellet Handling	VOC	0.69	3.02
3T-501	3T-501 Hexane Tank	VOC	0.31	0.56
3T502	3T-502 Hexane Tank	VOC	0.34	1.01
3T-503	3T-503 Hexane Tank	VOC	0.34	1.01
5T6010	Tank T-501	VOC	0.32	0.53
5T6020	Tank T-502	VOC	0.36	1.12
5T6030	Tank 2T-502	VOC	0.36	1.12
5T6040	Tank T-503	VOC	0.36	1.12
5T6050	Tank 2T-503	VOC	0.36	1.12
V-960	Caustic storage tank	NaOH	0.01	0.01
V-961	Caustic storage tank	NaOH	0.01	0.01
3V-961	Caustic storage tank	NaOH	0.01	0.01
D-301	HDPE Train A Dryer Vent	VOC	44.00	11.80
2D-301	HDPE Train B Dryer Vent	VOC	44.00	
3D-301	HDPE Train C Dryer Vent	VOC	44.00	
F-302	Powder Silo Bag Filter	PM	0.09	0.42
		PM ₁₀	0.09	0.42
		PM _{2.5}	0.09	0.42
2F-302	Powder Silo Bag Filter	PM	0.09	0.42
		PM ₁₀	0.09	0.42
		PM _{2.5}	0.09	0.42
3F302	Powder Silo Bag Filter	PM	0.16	0.62
		PM ₁₀	0.16	0.62
		PM _{2.5}	0.16	0.62
F-401	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
2F401	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
3F401	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
2F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
3F408	Powder Feed Hopper Bag Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
3F708A	Elutriate Bag Filter	PM	1.34	4.33
		PM ₁₀	1.34	4.33
		PM _{2.5}	1.34	4.33
F-701	Blend Silo Bag Filter	PM	0.09	0.37
		PM ₁₀	0.09	0.37
		PM _{2.5}	0.09	0.37
2F-701	Blend Silo Bag Filter	PM	0.09	0.37
		PM ₁₀	0.09	0.37
		PM _{2.5}	0.09	0.37
3F701A	Blending Silo Bag Filter	PM	0.35	1.54
		PM ₁₀	0.35	1.54
		PM _{2.5}	0.35	1.54
3F701B	Blending Silo Bag Filter	PM	0.35	1.54
		PM ₁₀	0.35	1.54
		PM _{2.5}	0.35	1.54

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-708A	Hopper Car Bag Filter F-708A	PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
F-708B	Hopper Car Bag Filter F-708B	PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
S-705	Packer Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
2S-705	Packer Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
S-707	Packer Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
2S-707	Packer Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
S-708A	Hopper Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
S-708B	Hopper Silo Cyclone Separator	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
S-709A	Product Silos Cyclone Separator S-709A	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
S-709B	Product Silos Cyclone Separator S-709B	PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
S-405	Recycle Pellet Cyclone	PM	0.28	0.10
		PM ₁₀	0.28	0.10
		PM _{2.5}	0.28	0.10
2S405	Recycle Pellet Cyclone	PM	0.28	0.10
		PM ₁₀	0.28	0.10
		PM _{2.5}	0.28	0.10
3S405	Recycle Pellet Cyclone	PM	0.28	0.10
		PM ₁₀	0.28	0.10
		PM _{2.5}	0.28	0.10
V-102	Catalyst Dip Pot	VOC	0.53	0.03
Z405	Additive Dust Collector	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.02	0.08
2Z405	Additive Dust Collector	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.02	0.08
Z410	Powder Vacuum Cleaner	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
PO-CT	Cooling Tower	VOC	1.32	5.79
		PM	1.72	4.80
		PM ₁₀	0.35	1.74
		PM _{2.5}	0.01	0.01
		HOCl	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H923A	Thermal Incinerator (6),	CO	15.49	-
		NO _x	10.25	-
		SO ₂	0.09	-
		VOC	0.96	-
		PM	0.96	-
		PM ₁₀	0.96	-
		PM _{2.5}	0.96	-
		CO (MSS)	75.00	18.70
		NO _x (MSS)	-	1.00
		SO ₂ (MSS)	0.10	0.10
		VOC (MSS)	-	0.20
H923B	Thermal Incinerator (6),	CO	15.49	-
		NO _x	10.25	-
		SO ₂	0.09	-
		VOC	0.96	-
		PM	0.96	-
		PM ₁₀	0.96	-
		PM _{2.5}	0.96	-
		CO (MSS)	75.00	18.70
		NO _x (MSS)	-	1.00
		SO ₂ (MSS)	0.10	0.10
		VOC (MSS)	-	0.20
H923A/B	Thermal Incinerators Annual Cap(6)	CO	-	55.97
		NO _x	-	44.90
		SO ₂	-	0.38
		VOC	-	4.19
		PM	-	4.21
		PM ₁₀	-	4.21
		PM _{2.5}	-	4.21
2F-302B	Powder Silo Bag Filter	PM	0.10	0.45
		PM ₁₀	0.10	0.45
		PM _{2.5}	0.10	0.45

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
3F708B	Railcar Bag Filter	PM	0.52	1.59
		PM ₁₀	0.52	1.59
		PM _{2.5}	0.52	1.59
3V305	Seal Dip Pot	VOC	0.01	0.01
1018	Olefins Flare I	CO	10.31	-
		NO _x	2.02	-
		SO ₂	0.01	-
		VOC	13.74	-
		CO (MSS)	65.30	9.90
		NO _x (MSS)	9.00	1.50
		VOC (MSS)	243.20	16.70
1067	Olefins Flare II	CO	10.31	-
		NO _x	2.02	-
		SO ₂	0.01	-
		VOC	13.74	-
		CO (MSS)	65.30	9.90
		NO _x (MSS)	9.00	1.50
		VOC (MSS)	243.20	16.70
1018 & 1067	Olefins Flare I & II Annual Cap	CO	-	27.11
		NO _x	-	5.32
		SO ₂	-	0.01
		VOC	-	36.10
PE-FUG	Plant Process Fugitives (5)	VOC	23.42	102.59
		Cl ₂	0.01	0.02
Maintenance, Startup, And Shutdown (MSS)				
DRYRVNTMSS	Dryer Vent MSS Activities	VOC	132.00	37.50
HDPE-MAINT	MSS to Atmosphere	VOC	80.60	2.50
		PM	0.20	0.30
		PM ₁₀	0.20	0.30
		PM _{2.5}	0.20	0.30
MSS HOURLY CAP-VOC	Total planned MSS VOC emissions from 1018, 1067, H923A, and H923B	VOC	66.00	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS HOURLY CAP-SO ₂	Total planned MSS SO ₂ emissions from H923A and H923B	SO ₂	0.10	-

- (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
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - 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
 NaOH - sodium hydroxide
 HOCl - hypochlorous acid
 Cl₂ - chlorine
- (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) The emissions from the incinerator stacks are the total emissions related to disposal of waste gases from the high density polyethylene, linear low density polyethylene and polypropylene plants.

DATE: September 6, 2019



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Formosa Plastics Corporation, Texas
Authorizing the Continued Operation of
Formosa Point Comfort Plant
Located at Point Comfort, Calhoun County, Texas
Latitude 28° 41' 20" Longitude -96° 32' 50"

Permits: 40157 and PSDTX1222

Issuance Date: February 7, 2020

Expiration Date: February 7, 2030



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	GLCmax = maximum (predicted) ground-level concentration
°F = Temperature in degrees Fahrenheit	gpm = gallon per minute
°K = Temperature in degrees Kelvin	gr/1000scf = grain per 1000 standard cubic feet
µg = microgram	gr/dscf = grain per dry standard cubic feet
µg/m ³ = microgram per cubic meter	H ₂ CO = formaldehyde
acfm = actual cubic feet per minute	H ₂ S = hydrogen sulfide
AMOC = alternate means of control	H ₂ SO ₄ = sulfuric acid
AOS = alternative operating scenario	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
AP-42 = Air Pollutant Emission Factors, 5th edition	HC = hydrocarbons
APD = Air Permits Division	HCl = hydrochloric acid, hydrogen chloride
API = American Petroleum Institute	Hg = mercury
APWL = air pollutant watch list	HGB = Houston/Galveston/Brazoria
BPA = Beaumont/ Port Arthur	hp = horsepower
BACT = best available control technology	hr = hour
BAE = baseline actual emissions	IFR = internal floating roof tank
bbl = barrel	in H ₂ O = inches of water
bbl/day = barrel per day	in Hg = inches of mercury
bhp = brake horsepower	IR = infrared
BMP = best management practices	ISC3 = Industrial Source Complex, a dispersion model
Btu = British thermal unit	ISCST3 = Industrial Source Complex Short-Term, a dispersion model
Btu/scf = British thermal unit per standard cubic foot or feet	K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
CAA = Clean Air Act	LACT = lease automatic custody transfer
CAM = compliance-assurance monitoring	LAER = lowest achievable emission rate
CEMS = continuous emissions monitoring systems	lb = pound
cfm = cubic feet (per) minute	hp = horsepower
CFR = Code of Federal Regulations	hr = hour lb/day = pound per day
CN = customer ID number	lb/hr = pound per hour
CNG = compressed natural gas	lb/MMBtu = pound per million British thermal units
CO = carbon monoxide	LDAR = Leak Detection and Repair (Requirements)
COMS = continuous opacity monitoring system	LNG = liquefied natural gas
CPMS = continuous parametric monitoring system	LPG = liquefied petroleum gas
DFW = Dallas/ Fort Worth (Metroplex)	LT/D = long ton per day
DE = destruction efficiency	m = meter
DRE = destruction and removal efficiency	m ³ = cubic meter
dscf = dry standard cubic foot or feet	m/sec = meters per second
dscfm = dry standard cubic foot or feet per minute	MACT = maximum achievable control technology
ED = (TCEQ) Executive Director	MAERT = Maximum Allowable Emission Rate Table
EF = emissions factor	MERA = Modeling and Effects Review Applicability
EFR = external floating roof tank	mg = milligram
EGU = electric generating unit	mg/g = milligram per gram
EI = Emissions Inventory	mL = milliliter
ELP = El Paso	MMBtu = million British thermal units
EPA = (United States) Environmental Protection Agency	MMBtu/hr = million British thermal units per hour
EPN = emission point number	MSDS = material safety data sheet
ESL = effects screening level	MSS = maintenance, startup, and shutdown
ESP = electrostatic precipitator	MW = megawatt
FCAA = Federal Clean Air Act	NAAQS = National Ambient Air Quality Standards
FCCU = fluid catalytic cracking unit	NESHAP = National Emission Standards for Hazardous Air Pollutants
FID = flame ionization detector	NGL = natural gas liquids
FIN = facility identification number	NNSR = nonattainment new source review
ft = foot or feet	NO _x = total oxides of nitrogen
ft/sec = foot or feet per second	
g = gram	
gal/wk = gallon per week	
gal/yr = gallon per year	
GLC = ground level concentration	

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 PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = 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
SO₂ = 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 40157 and PSDTX1222

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.
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 if applicable, with the exemption of those listed below.

Relief Valves (PSV-2006, PSV-2007, PSV-2008, and PSV-2009)

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):
 - A. Subpart A, General Provisions.
 - B. Subpart Kb, Volatile Organic Liquid Storage Vessels.
 - C. Subpart DDD, Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry
 - D. Subpart VV, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Volatile Organic Compound (VOC) Equipment Leaks.
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 for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart FFFF, Miscellaneous Organic Chemical Manufacturing.

Operational Standards

5. The polymer production shall be recorded daily during operation of this facility. The records shall include the production rate for the day, the polymer type or grade, and the quantities of any comonomers used. All records shall be dated for each day this facility is operated, and this record shall be made available to the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or his designated representative upon request.
6. Total volatile organic compounds (VOC) content of the polymer emitted to the atmosphere after the Pellet Dryer (Emission Point No. [EPN] 003) shall not exceed 40 pounds of VOC per million pounds (MM/lbs) of polymer.

7. The facility covered by this permit shall not operate unless all associated air pollution abatement equipment is maintained in good working order and operating during normal facility operations. The following steps shall be performed, at a minimum, to ensure the proper operation of the baghouses:
 - A. The baghouse pressure drop shall be recorded continuously for each baghouse during operation of this facility. All records of baghouse pressure drops shall be dated for each day this facility is operated, and this record shall be made available to the Executive Director of the TCEQ or his designated representative upon request.
 - B. When there are visible stack emissions from a baghouse, the process shall be shut down, and the entire baghouse shall be tested and inspected, and failed or damaged parts shall be repaired or replaced.
 - C. A spare parts inventory for each baghouse shall be maintained at the site of this facility.
 - D. The TCEQ Regional Director shall be notified as soon as possible of any baghouse system malfunction that results in visible emissions

Flares and Fuel Gas

8. Olefins I and II Elevated Flares (EPNs 1018 and 1067) shall be designed and operated in accordance with the following requirements:
 - A. The flare systems shall be designed such that the combined assist natural gas and waste gas stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing shall be performed per 40 CFR § 60.18(f) if requested by the appropriate Texas Commission on Environmental Quality (TCEQ) Regional Office to demonstrate compliance with these requirements.
 - B. The flares 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 flares 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 flares.
 - D. For each flare, the permit holder shall install a continuous flow monitor that provides a record of the vent stream flow to the flare. The flow monitor sensors 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.

The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.

The monitors 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 actual exit velocity

determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes.

- E. For each of the Olefins 1 & 2 Elevated Flares (EPNs 1018 and 1067), the permit holder shall install a calorimeter that provides a record of the BTU content of the vent stream to the flare. The calorimeter 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 analyzed.

The calorimeters shall be calibrated, installed, operated, and maintained in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

The calorimeters 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 determined in accordance with 40 CFR §60.18(f)(3) shall be recorded at least once every 15 minutes.

- F. The vents from the HDPE II unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:

- (1) All vents from the HDPE II unit may vent to EPN 1018 provided no vents from the HDPE II unit are venting at the same time to EPN 1067.
- (2) All vents from the HDPE II unit may vent to EPN 1067 provided no vents from the HDPE II unit are venting at the same time to EPN 1018.

9. The following requirements apply to capture systems for the Olefins I and II Elevated Flares designated as EPNs 1018 and 1067.

- A. If used to control pollutants other than particulate, either:

- (1) 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; or
- (2) Once a year, verify the capture system is leak free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

- B. The control device shall not have a bypass.

or

If there is a bypass for the control device, comply with either of the following requirements:

- (1) Install a flow indicator that records and verifies zero flow at least once every 15 minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
- (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

- C. If any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

10. Fuel gas combusted at the Catalyst Activator Direct Heater (EPN H-601) and the Olefins I and II Elevated Flares (EPNs 1018 and 1067) shall be sweet natural gas containing less than 3.4 ppmv hydrogen sulfide (H₂S). The gas shall be sampled annually for H₂S. This requirement may also be met through information provided by the natural gas supplier.

Cooling Tower

11. A leak in the cooling tower water shall be defined as 50 ppb or greater. The VOC associated with cooling tower water shall be monitored monthly using the El Paso Products Company method of analysis. This method is described in the TCEQ guidance document entitled "Air Quality Permit Technical Guidance for Chemical Sources - Cooling Towers," dated May 1997. The holder of this permit may use an air stripping system equivalent to the El Paso Products Company method of analysis, provided that he previously obtains written approval from the TCEQ Office of Air, Air Permits Division.

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 two years. The records shall be made available to the TCEQ Executive Director or his designated representative upon request.

12. The cooling tower (EPN PP2-CT) shall be operated and monitored in accordance with the following:
 - A. Cooling towers shall each be equipped with drift eliminators having 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 6,500 parts per million by weight (ppmw) on an hourly basis and 4,150 ppmw on an annual average. Dissolved solids in the cooling water drift are considered to be emitted as PM, PM₁₀, 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 D1125-14 Test Method A (field or routine laboratory testing) or ASTM D1125-14 Test Method B (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, PM₁₀ and PM_{2.5} shall be calculated using the measured TDS and 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.

Piping, Valves, Connectors, Pumps, Agitators, and Compressors — 28VHP

- 13. The following requirements apply to piping, valves, connectors, pumps, agitators, and compressors containing or in contact with fluids that could reasonably be expected to contain greater than or equal to 10 weight percent volatile organic compounds (VOC) at any time.
 - A. The requirements of paragraphs F and G shall not apply (1) where the 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 readily available upon request.

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

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

- 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 readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph 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 within the 72 hour 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. 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. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

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. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The 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.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems 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.
- H. Damaged or leaking valves or connectors 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. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.
- I. 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 within 15 days of the detection of the leak. 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 the TCEQ Executive Director 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.

- J. 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.
 - K. Alternative monitoring frequency schedules of 30 TAC §§ 115.352 - 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.
 - 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 (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS) and does not constitute approval of alternative standards for these regulations.
 - M. With respect to Special Condition 13, new and reworked is meant to apply to major changes in piping. It is not intended to apply to minor activities including but not limited to: installation/replacement of small number of valves and flanges; minor repairs; gasket replacement; repair/replacement of small sections of piping, etc. Also, "process pipelines" does not apply to underground process sewer lines, cooling tower water, fire water, etc. Additionally, the requirement for new and reworked buried connectors to be welded will not apply if compliance would require a process unit shutdown or would create a safety issue including, but not limited to, close proximity of other process pipelines and equipment or unsafe access to the piping.
14. In lieu of the 2000 ppmv VOC limit in Paragraph H of Special Condition 13, damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 500 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained.

Polymer Residual VOC Emission Control

15. Ongoing compliance with the emission limits for downstream of the dryer handling shall be determined for each line by calculation using weekly production rates and weekly sampling and testing of the polymer immediately downstream of the dryer (D) and at final product loading (P). Polymer production rates and monitoring records to be maintained at the plant site for two years and made available upon request shall include (but are not limited to):
- A. Date and time of sample;
 - B. Actual plant production rate at the time of sample and weekly average production rate;
 - C. Product number and melt index;
 - D. Measured pounds of VOC per MMlbs of polymer after the dryer and just before the final product is shipped; and

- E. Downstream handling emissions shall be calculated by $(D-P) \times (\text{weekly production})$. Calculations shall take into account any changes in product type during the week.

In the event that results from the weekly sample required by this condition are unavailable, the average results from the previous week and subsequent week may be used to satisfy this condition for no more than two calculations in a 12-month period.

Sampling and testing shall be performed with methods approved by the TCEQ Regional Office.

16. The holder of this permit shall perform stack sampling and other testing upon request by the TCEQ to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the following emission points: Pellet Dryer (EPN 003), Pellet Blending and Storage (EPN 004), Pellet Loadout Filter (EPN 005), and Extruder Feed Tank Vent (EPN 013).

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 appropriate TCEQ Regional Office in the region where the source is located 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 TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director or the TCEQ Compliance Support Division 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/equivalent procedure proposals that must have EPA and TCEQ approval shall be submitted to the TCEQ Compliance Support Division.

- B. Air contaminants emitted from the stacks to be tested include (but are not limited to) VOC and hexane.
- C. Polymer pellet sampling per Special Condition No. 15 shall also take place when performing the stack samples. These results shall be included in the test report and compared to those from the two stacks downstream of the dryer.

- D. The plant shall operate at maximum production rates 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 plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates are achieved.
- E. Two copies of the final sampling report shall be forwarded to each of the agencies below 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 Corpus Christi Regional Office; and
- One copy to EPA, Region 6, Dallas Office.
- F. Stack sampling of all Vents (EPNs 003, 004, 005, and 013) shall be performed within 120 days if two consecutive polymer pellet samples analyzed per Special Condition No. 15 exceed the maximum pellet VOC concentration, that was obtained by sampling in accordance with Special Condition No. 15, while performing any stack sampling under Special Condition No. 16, by more than 20 percent. This sampling is not required if stack sampling under this section (Special Condition No. 16.F) has been satisfactorily performed within the last 12 months.

Maintenance, Startup, and Shutdown (MSS)

17. This permit authorizes air emissions from the planned maintenance, startup, and shutdown (MSS) activities identified in the following table performed at the facilities authorized by this permit.

Facilities	Description/ Emissions Activity	EPN
All facilities*	Depressurize and purge to flare per Special Condition 18	1067
All facilities*	Degas facilities to atmosphere after flare per Special Condition 18	006MSS
All facilities*	Fill and/or vent to flare during startup	1067
All facilities*	Drain liquid to remove water	1067
Baghouses/bag filters	Repair, replace, maintain	006MSS
Reactors	Uncontrolled hydroblasting following depressurization and purge to flare	006MSS
Vacuum trucks	Load and transport liquid to support MSS on permanent facilities	006MSS
Treaters/converters using catalyst	Depressurize and degas catalyst facilities to flare for regeneration	1067

Facilities	Description/ Emissions Activity	EPN
Catalyst waste bins	Depressurize and purge catalyst facilities to flare to remove waste	1067
Catalyst waste bins	Open to atmosphere to remove waste	006MSS
Instruments/analyzers	Maintenance and calibrations	006MSS

* - all facilities include piping

In addition, planned MSS emissions emitted from routine emission points are authorized provided the emissions are compliant with the respective MAERT allowable emission rates and special conditions. This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: vacuum trucks and associated control devices. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility

Emissions from activities listed on Attachment A may be considered to be equal to the potential to emit represented in the permit amendment application, PI-1 dated January 3, 2008, and updated in subsequent application submittals. The estimated emissions from these activities must be revalidated annually. This revalidation shall consist verifying the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity identified in Attachment C and the emissions associated with it shall be recorded and include at least the following information:

- A. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- B. the type of planned MSS activity and the reason for the planned activity;
- C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- D. the date and time of the MSS activity and its duration;
- E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

18. Except for instrumentation/analyzer maintenance and vacuum trucks, process units and facilities shall be depressurized, degassed, and placed back into service in accordance with the following requirements. Plugged reactors will be degassed and hydroblasted in accordance with Special Condition 21.
 - A. The process equipment shall be vented to a control device or a controlled recovery system during depressurization.
 - B. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment or commencing depressurization, degassing and/or maintenance. Equipment that only contains material with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to the atmosphere after liquids are removed as required by this condition. Liquids must be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
 - C. If mixed phase materials must be removed from process equipment during depressurization, liquids removal, or degassing, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. Any vents in the knockout drum or equivalent must be routed to a control device or a controlled recovery system. Control must remain in place while mixed phase material removal is being performed.
 - D. Facilities shall be degassed using practices that ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. Records shall be maintained of the control device or recovery system utilized with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
 - E. After degassing in accordance with Special Condition 18.D, the VOC concentration in the facilities being degassed shall be verified to be below 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL) using one of the methods below prior to opening directly to atmosphere.
 - (1) For MSS activities other than process unit startup, shutdown, hydroblasting, or turnaround, the following option may be used in lieu of ii below. The facilities being prepared for maintenance shall not be vented directly to atmosphere, except as necessary to verify an acceptable VOC concentration and establish isolation of the work area, until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.
 - (2) Documentation shall be maintained of the locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the purge gases. If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 19. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC

concentration is less than 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL). Documented plant procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

- F. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:

- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
- (2) There is not an available connection to a plant control system (flare).
- (3) There is no more than 50 lb of air contaminant to be vented to atmosphere during shutdown or startup, as applicable.

Except for Attachment A activities, all instances of venting directly to atmosphere per Special Condition 18.F must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the activity record for those planned MSS activities.

19. Air contaminant concentration shall be measured using an instrument/detector meeting one of the following methods:

- A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.
- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

- B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

- (1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured is at least 20 percent of the maximum range of the tube.
- (2) The tube is used in accordance with the manufacturer's guidelines.
- (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

10,000* mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

- C. Lower explosive limit measured with a lower explosive limit detector.
- (1) The detector shall be calibrated monthly with a certified propane gas standard at 50% of the lower explosive limit (LEL) for propane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
 - (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.
 - (3) A certified methane gas standard equivalent to 50% of the LEL for propane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for propane.
- D. As an alternative to an instrument/detector, the analysis may be conducted in a laboratory. Bag samples of the gas discharged may be drawn and taken to a Formosa laboratory to be analyzed by gas chromatography (GC). A minimum of two bag samples shall be drawn approximately ten minutes apart. A Tedlar bag, or a bag appropriate for the material to be sampled, shall be used and shall have a valve to seal gas in the bag. The samples shall be drawn as follows:
- (1) The sample point on the equipment being cleared shall be purged sufficiently to ensure a representative sample at the sample valve.
 - (2) The sample bag shall be connected directly to the sample valve.
 - (3) The sample valve and sample bag shall be opened to allow the bag to fill to approximately 80% of capacity. The sample connections shall be fitted such that no air is drawn into the sample bag.
 - (4) The two valves shall then be closed to seal the sample in the bag.
 - (5) The sample bag shall then be disconnected and placed in a dark container out of direct sunlight for transport to the analyzer.
 - (6) This process is repeated to collect additional samples.
 - (7) The sample shall be analyzed within 12 hours of collection.

The laboratory GC shall meet or exceed the requirements of 40 CFR 60, Appendix A, Method 18 Sections 6 (Equipment and Supplies), 7 (Reagents and Standards), 9 (Quality Control), and 10 (Calibration and Standards). The sample shall be analyzed per Section 8.2.1.1.2 of Method 18, except the analysis does not need to be performed in triplicate. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

20. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:

- A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC partial pressure greater than 0.50 psi at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
 - B. Equip fill line intake with a “duckbill” or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (1) Prior to initial use, identify any liquid in the truck and the truck identifier (bill of lading or other unique identifier). Record the liquid level and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system. After each liquid transfer, identify the liquid transferred and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system.
 - (2) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (3) If the vacuum truck pump exhaust is controlled with a control device other than an engine or oxidizer, records shall be maintained of VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer, measured using an instrument meeting the requirements of Special Condition 19.
 - (4) The volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.
21. The reactor system shall be depressurized, liquids removed, and degassed per Special Condition 18.A, B, C, and D prior to opening the facility for hydroblasting. The reactor legs and vents shall be opened sequentially over a period of time as identified in the confidential portion of a letter dated January 26, 2009 submitted in response to a notice of deficiency. Trapped vapor that cannot be degassed because of the presence of polymer plugs may be vented directly to atmosphere during hydroblasting.
22. Bag filter maintenance shall be performed in a manner to minimize particulate matter emissions and minimize down time.
23. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.

24. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

A. Carbon Adsorption System (CAS).

- (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
- (2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:
 - (a) It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.
 - (b) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.
- (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 19.
- (4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. 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 four 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.
- (5) Records of CAS monitoring shall include the following:
 - (a) Sample time and date.
 - (b) Monitoring results (ppmv).
 - (c) Canister replacement log.
- (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30% of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer.

- (1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.
- (2) The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

C. Internal Combustion Engine.

- (1) The internal combustion engine shall have a VOC destruction efficiency of at least 99 percent.
- (2) The engine must have been stack tested with butane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable United States Environmental Protection Agency (EPA) Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance which may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition 19 are also acceptable for this documentation.
- (3) The engine shall be operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller. Documentation for each AFR controller that the manufacturer's, or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation.

D. The plant flare system (EPN 1067).

E. A liquid scrubbing system may be used upstream of carbon adsorption. A single carbon can or a liquid scrubbing system may be used as the sole control device if the requirements below are satisfied.

- (1) The exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the scrubber.
- (2) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 19.
- (3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be

stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded.

25. The following requirements apply to capture systems for the Olefins I and II Elevated Flare (EPNs 1018 and 1067) systems.
- A. Either 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; or verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21 once a year. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. The flare shall not have a bypass.
or
If there is a bypass for the flare, comply with either of the following requirements:
 - (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals that prevent flow out the bypass.These requirements do not apply to high point vent and low point drain valves. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when required to be in service per this permit.
 - C. If any of the above inspections is not satisfactory, the permit holder shall promptly take necessary corrective action. Records shall be maintained documenting the performance and results of the inspections required above.
26. With the exception of the MAERT emission limits, the MSS permit conditions become effective 180 days after this permit amendment, PI-1 dated January 3, 2008, has been approved. During the 180 day period, the permit holder shall maintain records of MSS activities. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. The basis used for determining the quantity of air contaminants to be emitted shall be recorded.

Date: February 7, 2020

Permits 40157 and PSDTX1222

Attachment A

Inherently Low Emitting Activities

Activity	Emissions			
	VOC	NO _x	CO	PM
Repair water boots	X	X	X	
Repair/replace filters/strainers	X	X	X	X
Repair/replace baghouses/bag filters	X	X	X	X
Catalyst waste removal	X	X	X	
Instrument/analyzer calibration/repair, sight glass cleaning/repair, transmitter repair	X	X	X	X
Attachment B activities with emission rates less than 0.1 pound VOC	X	X	X	X
Other Attachment A activities with emission rates less than 0.1 pound VOC	X	X	X	X

Date: February 7, 2020

Permits 40157 and PSDTX1222

Attachment B

Routine Maintenance Activities

Vessel, compressor, pump repair/replacement

Fugitive component (valve, pipe, flange) degas/repair/replacement

Pressure storage vessel repair/replacement

Column, reactor, relief valve, and heat exchanger repair/replacement

Catalyst treatment

Date: February 7, 2020

Permits 40157 and PSDTX1222

Attachment C

Significant MSS Activity Summary

The following activities are subject to the full recordkeeping requirements specified by Special Condition 17.

Reactor hydroblasting

Plant startup shutdown, and turnaround

Activities not listed on Attachments A and B or not otherwise authorized

Date: February 7, 2020

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 40157 and PSDTX1222

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)
1	Flash Tank Cleanout Screen	VOC	2.30	0.14
2	Powder Storage Tank	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
3	Pellet Dryer	VOC	0.66	2.90
004a	Pellet Blending and Storage I (6) Pellet Blending and Storage II (6)	VOC	1.38	6.05
004b		PM	0.26	1.15
		PM ₁₀	0.26	1.15
		PM _{2.5}	0.26	1.15
005a	Pellet Loadout Filter I (7) Pellet Loadout Filter II (7) Pellet Loadout Filter III (7) Pellet Loadout Filter IV (7)	VOC	1.38	6.05
005b		PM	0.50	2.18
005c		PM ₁₀	0.50	2.18
005d		PM _{2.5}	0.50	2.18
6	Process Fugitives (5)	VOC	15.66	68.61
11	Fluff Hopper Car Loading Filter	PM	0.04	0.15
		PM ₁₀	0.04	0.15
		PM _{2.5}	0.04	0.15
12	Pellet Hopper Car Loading Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
13		VOC	0.27	1.18

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Extruder Feed Tank Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
14	Extruder Building Vacuum Filter	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
16	HEPA Filter Vent Activator	CO	3.69	7.12
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
17	Quench Station Vent	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
18	Raw Catalyst Charge Bldg. Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
19	Drum Unloading Enclosure Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
20	Catalyst Fugitives	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
H-601	Catalyst Activator Direct Heater	VOC	0.09	0.30
		NO _x	0.96	3.27

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		CO	1.10	3.73
		PM	0.12	0.42
		PM ₁₀	0.12	0.42
		PM _{2.5}	0.12	0.42
		SO ₂	0.01	0.03
IC4LOAD	Isobutane Unloading Line Vent	VOC	0.01	0.01
1018	Olefins I Elevated Flare (8)	VOC	4.75	-
		NO _x	2.59	-
		CO	13.20	-
		SO ₂	0.02	-
	Olefins I Elevated Flare MSS (8)	VOC	699.88	-
		NO _x	44.75	-
		CO	299.66	-
		SO ₂	0.10	-
1067	Olefins II Elevated Flare (8)	VOC	4.75	-
		NO _x	2.59	-
		CO	13.20	-
		SO ₂	0.02	-
	Olefins II Elevated Flare MSS (8)	VOC	699.88	-
		NO _x	44.75	-
		CO	299.66	-
		SO ₂	0.10	-
1018 and 1067		VOC	-	20.81

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Olefins I and II Elevated Flares Annual Cap	NO _x	-	11.35
		CO	-	57.84
		SO ₂	-	0.10
	Olefins I and II Elevated Flares MSS Annual Cap	VOC	-	7.72
		NO _x	-	6.63
		CO	-	34.58
		SO ₂	-	0.06
PP2-CT	Cooling Tower	VOC	1.32	5.79
		PM	1.72	4.80
		PM ₁₀	0.40	1.74
		PM _{2.5}	0.01	0.01
		Chlorine Compounds	0.01	0.01
006MSS	Hydroblasting	VOC	963.90	4.30
	Other MSS	VOC	94.00	2.49
		PM	0.60	0.03
		PM ₁₀	0.60	0.03
		PM _{2.5}	0.60	0.03

- (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
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
CO - carbon monoxide
- (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) The EPNs 004a and 004b, Pellet Blending and Storage, are two identical vent stack systems. Maximum hourly and annual emissions are for both systems combined.

Emission Sources - Maximum Allowable Emission Rates

- (7) The EPNs 005a, 005b, 005c, and 005d, Pellet Loadout Filter System, are two identical sets of dual vent stacks. Maximum hourly and annual emissions are for both sets combined.
- (8) The vents from the HDPE II unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:
 - (i) All vents from the HDPE II unit may vent to EPN 1018 provided no vents from the HDPE II unit are venting at the same time to EPN 1067.
 - (ii) All vents from the HDPE II unit may vent to EPN 1067 provided no vents from the HDPE II unit are venting at the same time to EPN 1018.

Date: February 7, 2020



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Formosa Plastics Corporation, Texas
Authorizing the Construction and Operation of
Point Comfort Plant
Located at Point Comfort, Calhoun County, Texas
Latitude 28° 41' 20" Longitude -96° 32' 50"

Permit: 20203

Amendment Date: August 11, 2022

Expiration Date: September 29, 2024



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	GLCmax = maximum (predicted) ground-level concentration
°F = Temperature in degrees Fahrenheit	gpm = gallon per minute
°K = Temperature in degrees Kelvin	gr/1000scf = grain per 1000 standard cubic feet
µg = microgram	gr/dscf = grain per dry standard cubic feet
µg/m ³ = microgram per cubic meter	H ₂ CO = formaldehyde
acfm = actual cubic feet per minute	H ₂ S = hydrogen sulfide
AMOC = alternate means of control	H ₂ SO ₄ = sulfuric acid
AOS = alternative operating scenario	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
AP-42 = Air Pollutant Emission Factors, 5th edition	HC = hydrocarbons
APD = Air Permits Division	HCl = hydrochloric acid, hydrogen chloride
API = American Petroleum Institute	Hg = mercury
APWL = air pollutant watch list	HGB = Houston/Galveston/Brazoria
BPA = Beaumont/ Port Arthur	hp = horsepower
BACT = best available control technology	hr = hour
BAE = baseline actual emissions	IFR = internal floating roof tank
bbl = barrel	in H ₂ O = inches of water
bbl/day = barrel per day	in Hg = inches of mercury
bhp = brake horsepower	IR = infrared
BMP = best management practices	ISC3 = Industrial Source Complex, a dispersion model
Btu = British thermal unit	ISCST3 = Industrial Source Complex Short-Term, a dispersion model
Btu/scf = British thermal unit per standard cubic foot or feet	K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
CAA = Clean Air Act	LACT = lease automatic custody transfer
CAM = compliance-assurance monitoring	LAER = lowest achievable emission rate
CEMS = continuous emissions monitoring systems	lb = pound
cfm = cubic feet (per) minute	hp = horsepower
CFR = Code of Federal Regulations	hr = hour lb/day = pound per day
CN = customer ID number	lb/hr = pound per hour
CNG = compressed natural gas	lb/MMBtu = pound per million British thermal units
CO = carbon monoxide	LDAR = Leak Detection and Repair (Requirements)
COMS = continuous opacity monitoring system	LNG = liquefied natural gas
CPMS = continuous parametric monitoring system	LPG = liquefied petroleum gas
DFW = Dallas/ Fort Worth (Metroplex)	LT/D = long ton per day
DE = destruction efficiency	m = meter
DRE = destruction and removal efficiency	m ³ = cubic meter
dscf = dry standard cubic foot or feet	m/sec = meters per second
dscfm = dry standard cubic foot or feet per minute	MACT = maximum achievable control technology
ED = (TCEQ) Executive Director	MAERT = Maximum Allowable Emission Rate Table
EF = emissions factor	MERA = Modeling and Effects Review Applicability
EFR = external floating roof tank	mg = milligram
EGU = electric generating unit	mg/g = milligram per gram
EI = Emissions Inventory	mL = milliliter
ELP = El Paso	MMBtu = million British thermal units
EPA = (United States) Environmental Protection Agency	MMBtu/hr = million British thermal units per hour
EPN = emission point number	MSDS = material safety data sheet
ESL = effects screening level	MSS = maintenance, startup, and shutdown
ESP = electrostatic precipitator	MW = megawatt
FCAA = Federal Clean Air Act	NAAQS = National Ambient Air Quality Standards
FCCU = fluid catalytic cracking unit	NESHAP = National Emission Standards for Hazardous Air Pollutants
FID = flame ionization detector	NGL = natural gas liquids
FIN = facility identification number	NNSR = nonattainment new source review
ft = foot or feet	NO _x = total oxides of nitrogen
ft/sec = foot or feet per second	
g = gram	
gal/wk = gallon per week	
gal/yr = gallon per year	
GLC = ground level concentration	

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 PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = 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
SO₂ = 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 20203 and PSDTX1224

Emissions Standards

1. This permit authorizes LLDPE production operations for a facility located at 201 Formosa Drive, Point Comfort, Calhoun County, Texas.

This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources — Maximum Allowable Emission Rates," and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in this permit.

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. 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.
3. Production of polyethylene at this facility is limited to 1,000 million pounds per year calculated on a rolling 12-month basis. The holder of this permit shall keep records of monthly and cumulative annual production rates on a rolling 12-month basis. The records shall be maintained for a rolling two year period and be made available to representatives of the TCEQ upon request. **(11/14)**

Federal Applicability

4. Modifications evaluated under the actuals-to-projected actuals (ATPA) applicability test. **(11/14)**
 - A. The permit holder shall comply with the monitoring, recordkeeping and reporting requirements of 30 TAC §116.127 with respect to the facilities identified in the following paragraphs.
 - B. The modification authorized by permit amendment (application received October 2, 2014), which included an increase in maximum permitted LLDPE production.

The projected actual emissions for facilities where the ATPA applicability test has been employed are as follows:

FIN	EPN	Facility Name	Projected actual emission rate (tons per year [tpy])
S1-446	LL-001	Final Degasser	17.80 tpy VOC
F1-840	LL-003	Pelletizer #1	0.95 tpy VOC
F2-840	LL-004	Pelletizer #2	0.93 tpy VOC
S2-898	LL-017	Truck Silo #1	0.012 tpy PM _{2.5}

Total actual emissions from the referenced facilities shall be monitored and recorded in accordance with Title 30 of the Texas Administrative Code (30 TAC) §116.127(b).

If any projected actual emission rate is exceeded during any rolling 12-month period during the 60 months following the completion of the above referenced modification, and if total

emissions from the referenced facilities exceed 30.75 tpy VOC or 0.40 tpy PM_{2.5}, the permit holder shall submit a report to the Division Director, TCEQ Air Permits Division, in accordance with 30 TAC §116.127(d).

5. 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):
 - A. Subpart A, General Provisions.
 - B. Subpart Kb, Volatile Organic Liquid Storage Vessels.
 - C. Subpart VV, Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced after January 5, 1981, and on or before November 7, 2006.
 - D. Subpart DDD, VOC Emissions from the Polymer Manufacturing Industry.
6. 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:
 - A. Subpart A, General Provisions.
 - B. Subpart FFFF, Miscellaneous Organic Chemical Manufacturing.
7. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 5 and 6, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Operational Standards

8. Particulate matter grain loading shall not exceed 0.01 grain per dry standard cubic foot of air from any baghouse or cyclone authorized under this permit. There shall be no visible emissions exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method 22.

The vents covered by this permit shall not operate unless control devices and associated equipment are maintained in good working order and operating. Records shall be maintained of all inspections and maintenance performed.

The following steps shall be performed, at a minimum, to ensure the proper operation of the baghouses and cyclones:

- A. The differential pressure across each baghouse shall be continuously monitored and be recorded at least daily. Differential pressures shall be maintained within manufacturer's specifications for each baghouse and each cyclone. Manufacturer's specifications for the minimum and maximum differential pressures for each baghouse and each cyclone shall be conspicuously displayed near such baghouse or cyclone.

Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications. Each monitoring device shall be inspected annually to verify

good working order. All records of baghouse and cyclone pressure drop shall be dated for each day the baghouse or cyclone is operated, and the records shall be maintained on-site for a rolling 12-month period and made available for inspection to the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or a designated representative upon request.

- B. When there are visible emissions from a baghouse or cyclone, the operation associated with the event shall be shut down as soon as practicable, the entire baghouse or cyclone shall be inspected, and the failed or damaged parts shall be repaired or replaced.
 - C. A spare parts inventory with an adequate number of replacement bags for each baghouse and each cyclone shall be maintained on-site at all times. All baghouses and cyclones shall undergo a preventative maintenance inspection on an annual basis.
 - D. The TCEQ Regional Director shall be notified as soon as possible of any baghouse or cyclone system malfunction that results in visible emissions.
9. Flares (EPNs 1018 and 1067) shall be designed and operated in accordance with the following requirements:
- A. The flare systems shall be designed such that the combined assist natural gas and waste gas stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per shall be performed 40 CFR § 60.18(f) if requested by the appropriate Texas Commission on Environmental Quality (TCEQ) Regional Office to demonstrate compliance with these requirements.
 - B. The flares 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 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. **(08/18)**
 - C. The flares 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.
 - D. For each of the Olefins 1 & 2 Elevated Flares (EPN 1018 and 1067), the permit holder shall install a continuous flow monitor that provides a record of the vent stream flow to the flares. The flow monitor sensor 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.

The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.

The monitors 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 actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes. **(08/18)**
 - E. For each of the Olefins 1 & 2 Elevated Flares (EPNs 1018 and 1067), the permit holder shall install a calorimeter that provides a record of the BTU content of the vent stream to the flares.

The calorimeter 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 analyzed.

The calorimeter shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

The calorimeter 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 determined in accordance with 40 CFR §60.18(f)(3) shall be recorded at least once every 15 minutes. **(08/18)**

10. This permit authorizes emissions from the Flare (Emission Point Nos. [EPNs] 1018 and 1067) for normal process degassing procedures including, but not limited to the following activities:

Product grade transitions, normal processing material regeneration, loading/unloading, and other intermittent operations which cause temperature or pressure variations to the incinerator. The permit holder shall document each of these activities and estimate actual emissions associated with each.

11. The incinerators (EPN LI-01A/B) shall comply with the following requirements. **(8/22)**

- A. The thermal oxidizer (EPN LI-01A/B) shall maintain the VOC concentration in the exhaust gas less than 10 ppmv on a dry basis, corrected to 3 percent oxygen, or achieve a VOC destruction efficiency greater than 99.9 percent.
- B. The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and exhaust oxygen concentration not less than 3 percent on a six-minute average while waste gas is being fed into the oxidizer prior to initial stack testing. After the initial stack test has been completed, the six minute average temperature shall be equal to, or greater than the respective hourly average maintained during the most recent satisfactory stack testing required by Special Condition No. 19.
- C. The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^\circ\text{C}$ (degrees Fahrenheit or $\pm 4.5^\circ\text{F}$).

Quality assured (or valid) data must be generated when the thermal oxidizer is operating 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 thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

- D. The oxygen analyzer used to satisfy paragraph A of this special condition shall continuously monitor and record oxygen concentration when waste gas is directed to the oxidizer. It shall reduce the oxygen readings to an averaging period of 6 minutes or less and record it at that frequency.

The oxygen analyzer shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified Performance Specification No. 3, 40 CFR Part 60, Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

The analyzer shall be quality-assured at least semiannually using cylinder gas audits (CGAs) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: a relative accuracy test audit is not required once every four quarters (i.e., two successive semiannual CGAs may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive semiannual audits shall occur no closer than four months. Necessary corrective action shall be taken for all CGA exceedances of ± 15 percent accuracy and any continuous emissions monitoring system downtime in excess of 5 percent of the incinerator operating time. These occurrences and corrective actions shall be reported to the appropriate TCEQ Regional Director on a quarterly basis. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

Quality assured (or valid) data must be generated when the thermal oxidizer is operating 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 thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

- E. Fuel gas combusted in the thermal oxidizers shall be sweet natural gas containing no more than 0.26 grains of total sulfur per 100 dry standard cubic feet.
12. The following requirements apply to capture systems for each flare designated as EPNs 1018 and 1067 and each incinerator system designated as EPNs LI-01A/B.
- A. If used to control pollutants other than particulate, either:
 - (1) 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; or
 - (2) Once a year, verify the capture system is leak free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. The control device shall not have a bypass.
- or
- If there is a bypass for the control device, comply with either of the following requirements:
- (1) Install a flow indicator that records and verifies zero flow at least once every 15 minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

- C. If any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

Cooling Tower

13. The VOC associated with cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method. The results of the VOC monitoring, cooling water flow rate, and maintenance activities on the cooling water system shall be recorded. The VOC monitoring results and cooling water hourly mass flow rate shall be used to determine cooling tower hourly VOC emissions. The rolling 12-month cooling water emission rate shall be recorded on a monthly basis and be determined by summing the VOC emissions between VOC monitoring periods over the rolling 12 month period. The emissions between VOC monitoring periods shall be obtained by multiplying the total cooling water mass flow between cooling water monitoring periods by the higher of the two VOC monitored results.

Piping, Valves, Connectors, Pumps, Agitators, and Compressors – 28VHP

14. The following requirements apply to piping, valves, connectors, pumps, agitators, and compressors containing or in contact with fluids that could reasonably be expected to contain greater than or equal to 10 weight percent volatile organic compounds (VOC) at any time. **(09/21)**
- A. The requirements of paragraphs F and G shall not apply (1) where the Volatile Organic Compound (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 readily available upon request.
- The exempted components may be identified by one or more of the following methods:
- (1) Piping and instrumentation diagram (PID);
 - (2) A written or electronic database or electronic file;
 - (3) Color coding;
 - (4) A form of weatherproof identification; or
 - (5) Designation of exempted process unit boundaries.
- B. 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.
- 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 readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph 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 within the 72-hour 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. 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. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

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. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The 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.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems 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.
- H. Damaged or leaking valves or connectors 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. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.
- I. 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 within 15 days of the detection of the leak. 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 shut down 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 the TCEQ Executive Director may require early unit shut down 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.
- J. 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.

- K. Alternative monitoring frequency schedules of 30 TAC §§ 115.352 – 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.
- 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 (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS) and does not constitute approval of alternative standards for these regulations.
- M. Requirements in paragraphs B–E pertaining to new and reworked connections are meant apply to major significant changes in piping. Insignificant activities exempt from requirements B–E pertaining to new and reworked connections include, but are not limited to: installation/replacement of small number of valves and flanges; minor repairs; gasket replacement; and repair/replacement of small sections of piping. Additionally, the requirement for new and reworked buried connectors to be welded does not apply if compliance would require a process unit shutdown or would create a safety issue including, but not limited to, close proximity of other process pipelines and equipment or unsafe access to the piping.

This paragraph M shall not be construed to authorize the replacement or modification of any component in compliance with requirements of paragraphs B–E with a component which is not in compliance with paragraphs B–E.

- 15. In lieu of the 2000 ppmv VOC limit in Paragraph H of Special Condition 14, damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 500 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained.
- 16. In addition to the weekly physical inspection required by Item E of Special Condition 14, all connectors in gas/vapor and light liquid service shall be monitored annually with an approved gas analyzer in accordance with Items F thru J of Special Condition 14. 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. (28CNTA)

Continuing Determination of Compliance

17. The permit holder 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 Catalyst Filling Vent No. 1 (EPN LL-005), the Powder Bin Vent No. 1 (EPN LL-008), and the Incinerator (EPN LI-01) during the production limit of 830MMlbs/year as specified in Special Condition No. 3 of this permit (version dated November 20, 2009). Testing shall be conducted within 120 days of issuance of the amended permit proposed in the application dated September 29, 2009. Requests for additional time to perform sampling shall be submitted to the TCEQ Corpus Christi Regional Office. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and the EPA Reference Methods. **(11/14)**

Required testing was conducted February 26–27, 2010 in accordance with Special Condition 17, and the required report was submitted April 6, 2010, in accordance with Special Condition 18.D. **(11/14)**

EPN LI-01 was removed from the permit on [Date] and was replaced by EPN LI-01A/B. Stack sampling requirements for EPN LI-01A/B are located in Condition No. 19.

18. 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 40 CFR Part 60 testing which must have EPA approval shall be submitted to the TCEQ Regional Director.
- A. The TCEQ Corpus Christi Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:
- (1) Proposed 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) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
 - (7) Procedure/parameters to be used to determine worst case emissions during the sampling period

The TCEQ Corpus Christi Regional Office may request additional information.

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. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

- B. Air contaminants emitted from the Catalyst Filling Vent No. 1 (EPN LL-005) to be tested for include (but are not limited to) VOC. Air contaminants emitted from the Powder Bin Vent No. 1 (EPN LL-008) to be tested for includes (but are not limited to) VOC. Air contaminants

emitted from the Incinerator Stack (EPN LI-01) to be tested for include (but are not limited to) VOC, nitrogen oxides, and carbon monoxide.

- C. Catalyst Filling Vent No. 1 shall be tested during the batch process of preparing TEA. The plant shall operate at maximum production rates during stack emission testing of the Powder Bin Vent No. 1 (EPN LL-008) and the Incinerator (EPN LI-01). Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack tests. These parameters are to be determined at the pretest meeting. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. If the plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates are achieved. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.
- D. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the TCEQ Corpus Christi Regional Office.
 - One copy to each local air pollution control program.
- E. The permit holder shall provide sampling facilities conducive to EPA Method 5 testing for particulate matter on the Incinerator (EPN LI-01) during the next planned unit shutdown.

Initial Determination of Compliance

- 19. The permit holder 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 incinerators (EPN LI-01A/B) to demonstrate compliance with the MAERT and Special Condition No. 11. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

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 Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60) testing which must have EPA approval shall be submitted to the TCEQ Regional Director. **(8/22)**

- A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:
 - (1) Proposed 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) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
- (7) Procedure/parameters to be used to determine worst case emissions 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 the test reports. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

- B. Air contaminants emitted from each incinerator (EPN LI-01A/B) to be tested for include (but are not limited to) NO_x, CO, O₂, and VOC.
- C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities (or increase in production, as appropriate) and at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.
- D. The facility being sampled shall operate at the maximum production rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

During subsequent operations, if the production rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

- E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office.
One copy to each local air pollution control program.
- F. Sampling ports and platform(s) shall be incorporated into the design of (source stack and EPN) according to the specifications set forth in the attachment entitled "Chapter 2, Guidelines for Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

Maintenance, Startup, and Shutdown (MSS)

- 20. This permit authorizes air emissions from the planned maintenance, startup, and shutdown (MSS) activities identified in the following table performed at the facilities authorized by this permit.

Facilities	Description/ Emissions Activity	EPN
All facilities*	Depressurize and purge to control per Special Condition 21	1018, 1067, LI-01A/B, or LLDPE-TMP
All facilities*	Degas facilities to atmosphere after control per Special Condition 21	LLDPE-MNT
All facilities*	Fill and/or vent to control during startup	1018, 1067, LI-01A/B, or LLDPE-TMP
All facilities*	Drain liquid to remove water	1018, 1067, LI-01A/B, or LLDPE-TMP
Floating roof tanks	Degas to control, then atmosphere per Special Condition 24	1018, 1067, LI-01A/B, LLDPE-TMP, or LLDPE-MNT
Floating roof tanks	Fill clean tank with landed roof	1018, 1067, LI-01A/B, LLDPE-TMP, or LLDPE-MNT
Baghouses/bag filters, Cyclones	Repair, replace, maintain	1018, 1067, LI-01A/B, LLDPE-TMP or LLDPE-MNT
Incinerator	Maintenance on incinerator	1018, 1067, LI-01A/B, LLDPE-TMP, or LLDPE-MNT
All facilities	Uncontrolled hydroblasting following depressurization and purge to control	LLDPE-MNT
Vacuum trucks	Load and transport liquid to support MSS on permanent facilities	LLDPE-MNT
Treaters/converters using catalyst	Depressurize and degas catalyst facilities to control for regeneration	1018, 1067, LI-01A/B, or LLDPE-TMP
Catalyst waste bins	Depressurize and purge catalyst facilities to control to remove waste	1018, 1067
Catalyst waste bins	Open to atmosphere to remove waste	LLDPE-MNT
Instruments/analyzers	Maintenance and calibrations	LLDPE-MNT
All facilities	Sampling and sight glass cleaning	LLDPE-MNT
Carbon canisters	Maintenance on carbon canisters	LLDPE-MNT

* - all facilities include piping

In addition, planned MSS emissions emitted from routine emission points are authorized provided the emissions are compliant with the respective MAERT allowable emission rates and special conditions. This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: vacuum trucks and control devices meeting the requirements of Special Condition 23 and 27. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility

Emissions from activities listed on Attachment A may be considered to be equal to the potential to emit represented in the permit amendment application, PI-1 dated January 3, 2008, and updated in subsequent application submittals. The estimated emissions from these activities must be revalidated annually. This revalidation shall consist verifying the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

- A. The performance of each planned MSS activity identified in Attachment C and the emissions associated with it shall be recorded and include at least the following information:
- B. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- C. the type of planned MSS activity and the reason for the planned activity;
- D. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- E. the date and time of the MSS activity and its duration;
- F. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

- 21. Except for instrumentation/analyzer maintenance and vacuum trucks, process units and facilities shall be depressurized, degassed, and placed back into service in accordance with the following requirements.
 - A. The process equipment shall be vented to a control device or a controlled recovery system during depressurization.
 - B. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment or commencing depressurization, degassing and/or maintenance. Equipment that only contains material with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to the atmosphere after liquids are removed as required by this condition. Liquids must be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
 - C. If mixed phase materials must be removed from process equipment during depressurization, liquids removal, or degassing, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. Any vents in the knockout drum or equivalent must be routed to a control device or a controlled recovery system. Control must remain in place while mixed phase material removal is being performed.
 - D. Facilities shall be degassed using practices that ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by

process equipment or storage vessel design. Records shall be maintained of the control device or recovery system utilized with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.

- E. After degassing in accordance with Paragraph D, the VOC concentration in the facilities being degassed shall be verified to be below 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL) using one of the methods below prior to opening directly to atmosphere.
- (1) For MSS activities other than process unit startup, shutdown, hydroblasting, or turnaround, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere, except as necessary to verify an acceptable VOC concentration and establish isolation of the work area, until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.
 - (2) Documentation shall be maintained of the locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the purge gases. If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 22. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or less than 10 percent of the lower explosive limit (LEL). Documented plant procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.
- F. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:
- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
 - (2) There is not an available connection to a plant control system (flare or incinerator).
 - (3) There is no more than 50 lb of air contaminant to be vented to atmosphere during shutdown or startup, as applicable.
- Except as noted in Attachment A, all instances of venting directly to atmosphere per Paragraph F must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the activity record for those planned MSS activities.

22. Air contaminant concentration shall be measured using an instrument/detector meeting one of the following methods:

- A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.
 - (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
- B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.
- (1) The air contaminant concentration measured must be less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured must be at least 20 percent of the maximum range of the tube.
 - (2) The tube is used in accordance with the manufacturer's guidelines.
 - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:
measured contaminant concentration (ppmv) < release concentration.
Where the release concentration is:
10,000*mole fraction of the total air contaminants present in the gas stream that can be detected by the tube.
The mole fraction of the total air contaminants present in the gas stream that can be detected by the tube may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.
- Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.
- C. Lower explosive limit measured with a lower explosive limit detector.
- (1) The detector shall be calibrated monthly with a certified propane gas standard at 50% of the lower explosive limit (LEL) for propane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
 - (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.
 - (3) A certified methane gas standard equivalent to 50% of the LEL for propane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for propane.
- D. As an alternative to an instrument/detector, the analysis may be conducted in a laboratory. Bag samples of the gas discharged may be drawn and taken to a Formosa laboratory to be analyzed by gas chromatography (GC). A minimum of two bag samples shall be drawn approximately ten minutes apart. A Tedlar bag, or a bag appropriate for the material to be

sampled, shall be used and shall have a valve to seal gas in the bag. The samples shall be drawn as follows:

- (1) The sample point on the equipment being cleared shall be purged sufficiently to ensure a representative sample at the sample valve.
- (2) The sample bag shall be connected directly to the sample valve.
- (3) The sample valve and sample bag shall be opened to allow the bag to fill to approximately 80% of capacity. The sample connections shall be fitted such that no air is drawn into the sample bag.
- (4) The two valves shall then be closed to seal the sample in the bag.
- (5) The sample bag shall then be disconnected and placed in a dark container out of direct sunlight for transport to the analyzer.
- (6) This process is repeated to collect additional samples.
- (7) The sample shall be analyzed within 12 hours of collection.

The laboratory GC shall meet or exceed the requirements of 40 CFR 60, Appendix A, Method 18 Sections 6 (Equipment and Supplies), 7 (Reagents and Standards), 9 (Quality Control), and 10 (Calibration and Standards). The sample shall be analyzed per Section 8.2.1.1.2 of Method 18, except the analysis does not need to be performed in triplicate. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

23. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
 - A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC partial pressure greater than 0.50 psi at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
 - B. Equip fill line intake with a “duckbill” or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (1) Prior to initial use, identify any liquid in the truck and the truck identifier (bill of lading or other unique identifier). Record the liquid level and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system. After each liquid transfer, identify the liquid transferred and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system.
 - (2) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.

- (3) If the vacuum truck pump exhaust is controlled with a control device other than an engine or oxidizer, records shall be maintained of VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer, measured using an instrument meeting the requirements of Special Condition 22.
 - (4) The volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.
- 24. This permit authorizes emissions for floating roof storage tanks during planned floating roof landings. Tank roofs may only be landed for tank inspection/maintenance. Tank roof landings include all operations when the tank floating roof is on its supporting legs. The following requirements apply to tank roof landings.
 - A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the vapor under a floating roof is routed to control or a controlled recovery system during this process.
 - B. Tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to control or a controlled recovery system during this period. The tank shall not be opened except as necessary to set up for degassing and cleaning. Controlled degassing of the vapor space under landed roofs shall be completed as follows:
 - (1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.
 - (2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.
 - (3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition 22.

- (4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.
 - (5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.
- C. The tank shall not be opened or ventilated without control, except as allowed below until one of the criteria in part D of this condition is satisfied.
 - (1) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - (2) Access points shall be closed when not in use
- D. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.
 - (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.
 - (b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).
 - (c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1000 ppmv through the procedure in Special Condition 22.
 - (3) No standing liquid verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank.
- E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs.
- F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:
 - (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;

- (2) the reason for the tank roof landing;
 - (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
 - (a) the roof was initially landed,
 - (b) all liquid was pumped from the tank to the extent practical,
 - (c) start and completion of controlled degassing, and total volumetric flow,
 - (d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,
 - (e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,
 - (f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and
 - (g) tank roof off supporting legs, floating on liquid;
 - (4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events c and g with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 — Storage of Organic Liquids" dated November 2006 and the permit application.
25. Bag filter maintenance and cyclone maintenance shall be performed in a manner to minimize particulate matter emissions and minimize down time.
26. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.
27. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

A. Carbon Adsorption System (CAS).

- (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
- (2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:

- (a) It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.
 - (b) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.
 - (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 22.
 - (4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. 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 four 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.
 - (5) Records of CAS monitoring shall include the following:
 - (a) Sample time and date.
 - (b) Monitoring results (ppmv).
 - (c) Canister replacement log.
 - (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30% of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.
- B. Thermal Oxidizer.
- (1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.
 - (2) The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^\circ\text{C}$.
- C. Internal Combustion Engine.

- (1) The internal combustion engine shall have a VOC destruction efficiency of at least 99 percent.
 - (2) The engine must have been stack tested with butane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable United States Environmental Protection Agency (EPA) Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance which may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition 22 are also acceptable for this documentation
 - (3) The engine shall be operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller. Documentation for each AFR controller that the manufacturer's, or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation.
- D. The plant flare system (EPNs 1067 and 1018) or incinerator (EPN LI-01A/B).
- E. A liquid scrubbing system may be used upstream of carbon adsorption. A single carbon can or a liquid scrubbing system may be used as the sole control device if the requirements below are satisfied.
- (1) The exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the scrubber.
 - (2) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 22.
 - (3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded.

Date: August 11, 2022

Permit Numbers 20203 and PSDTX1224

Attachment A

Inherently Low Emitting Activities

Activity	Emissions			
	VOC	NO _x	CO	PM
Hydroblasting*	X			
Repair/replace filters/strainers	X	X	X	X
Repair/replace baghouses/bag filters	X	X	X	X
Repair of cyclones				X
Catalyst waste removal	X	X	X	
Instrument/analyzer calibration/repair, sight glass cleaning/repair, transmitter repair	X	X	X	X
Carbon can replacement*	X			
Sampling*	X			
Other Attachment A activities, as identified in the permit application, with emission rates less than 0.1 pound VOC*	X			

* - These activities are not subject to the requirements of Special Condition 21.

Date: September 29, 2014

Permit Numbers 20203 and PSDTX1224

Attachment B

Routine Maintenance Activities

Repair/replacement that may be isolated so that the process volume to be emptied and degassed is less than 200 cubic feet such as:

Small equipment component repair/replacement

Column, reactor, or vessel repair/replacement

Piping degassing

Date: September 29, 2014

Permit Numbers 20203 and PSDTX1224

Attachment C

Significant MSS Activity Summary

The following activities are subject to the full recordkeeping requirements specified by Special Condition 20.

Floating roof tank landing and refill

Plant startup, shutdown, and turnaround

Incinerator degassing/repair/replacement

Activities not listed on Attachments A and B or not otherwise authorized

Date: September 29, 2014

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20203 and PSDTX1224

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)
LL-003	Extruder Feed Bin No. 1	VOC	2.37	9.72
LL-004	Extruder Feed Bin No. 2	VOC	2.37	9.72
LL-005	Catalyst Filling Vent No. 1	VOC	9.65	0.43
LL-006	Catalyst Filling Vent No. 2	VOC	8.80	0.10
LL-007	Buffer Silo No. 1	VOC	2.28	6.48
		PM	0.10	0.46
		PM ₁₀	0.10	0.46
		PM _{2.5}	0.10	0.46
LL-008	Powder Bin No. 1	VOC	1.20	5.28
		PM	0.10	0.46
		PM ₁₀	0.10	0.46
		PM _{2.5}	0.10	0.46
LL-011	Blending Silo No. 1	PM	0.18	0.78
		PM ₁₀	0.18	0.78
		PM _{2.5}	0.18	0.78
LL-012	Blending Silo No. 2	PM	0.18	0.78
		PM ₁₀	0.18	0.78
		PM _{2.5}	0.18	0.78
LL-013	Product Silo No. 1	PM	0.13	0.58
		PM ₁₀	0.13	0.58
		PM _{2.5}	0.13	0.58
LL-014	Product Silo No. 2	PM	0.13	0.58
		PM ₁₀	0.13	0.58

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM _{2.5}	0.13	0.58
LL-015	Hopper Car Silo No. 1 and Hopper Car Loading No. 1	PM	0.18	0.79
		PM ₁₀	0.18	0.79
		PM _{2.5}	0.18	0.79
LL-016	Hopper Car Silo No. 2 and Hopper Car Loading No. 2	PM	0.18	0.79
		PM ₁₀	0.18	0.79
		PM _{2.5}	0.18	0.79
LL-017	Truck Silo No. 1	PM	0.26	1.16
		PM ₁₀	0.26	1.16
		PM _{2.5}	0.26	1.16
LL-019	Auto-Packer Silo No. 1	PM	0.26	1.16
		PM ₁₀	0.26	1.16
		PM _{2.5}	0.26	1.16
LL-023	Additive Mix Tanks Bag Filter	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
LL-025	Master Batch No. 1	PM	0.06	0.24
		PM ₁₀	0.06	0.24
		PM _{2.5}	0.06	0.24
LL-026	Master Batch No. 2	PM	0.06	0.24
		PM ₁₀	0.06	0.24
		PM _{2.5}	0.06	0.24
Process	Process Fugitives (5)	VOC	9.97	43.68
LI-01A/B	Incinerator	VOC	2.21	9.68
		PM	1.38	6.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM ₁₀	1.38	6.02
		PM _{2.5}	1.38	6.02
		NO _x	7.57	33.17
		CO	13.59	59.52
		SO ₂	0.03	0.12
LI-01A/B	Incinerator MSS	VOC (7)	1,303.70	14.93
		NO _x (7)	79.30	1.04
		CO (7)	573.00	7.53
1018	Olefins I Elevated Flare (6)	VOC	65.07	6.39
		VOC MSS (7)	1303.70	14.93
		NO _x	5.31	0.58
		NO _x MSS (7)	79.30	1.04
		CO	38.24	3.99
		CO MSS (7)	573.00	7.53
1067	Olefins II Elevated Flare (6)	VOC	65.07	6.39
		VOC MSS (7)	1303.70	14.93
		NO _x	5.31	0.58
		NO _x MSS (7)	79.30	1.04
		CO	38.24	3.99
		CO MSS (7)	573.00	7.53
LL-CT	LLDPE Cooling Tower	VOC	1.77	7.72
		PM	0.42	1.85
		PM ₁₀	0.33	1.44
		PM _{2.5}	0.01	0.01
LL-009		PM	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Weight Feeder Surge Hopper F1-850	PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
LL-010	Weight Feeder Surge Hopper F2-850	PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
LL-030	Train 1 Re-Run Filter S1-855	PM	0.27	1.07
		PM ₁₀	0.27	1.07
		PM _{2.5}	0.27	1.07
LL-031	Train 2 Re-Run Filter S2-855	PM	0.27	1.07
		PM ₁₀	0.27	1.07
		PM _{2.5}	0.27	1.07
LL-032	Train 1 Masterbatch Hopper F1-830A/B	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
LL-033	Train 2 Masterbatch Hopper F2-830A/B	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
LL-034	Train 1 Q1-830 Feeder Filter S1-830	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
LL-035	Train 2 Q2-830 Feeder Filter S2-830	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
LL-036	Train 1 F1-810 Vent Filter S1-811	PM	0.02	0.06
		PM ₁₀	0.02	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM _{2.5}	0.02	0.06
LL-037	Train 2 F2-810 Vent Filter S2-811	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-038	Train 1 F1-812 Vent Filter S1-812	PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
LL-039	Train 2 F2-812 Vent Filter S2-812	PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
LL-040	Train 1 F1-800 Vent Filter S1-800.1	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-041	Train 2 F2-800 Vent Filter S2-800.1	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-042	Train 1 F1-810 Feeder Filter Q1-810	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-043	Train 2 F2-810 Feeder Filter Q2-810	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-044	Train 1 F1-856 Feeder Filter Q1-856	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
LL-045	Train 2 F2-856 Feeder Filter Q2-856	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-046	Train 1 X1-856 Feeder Filter C1-856	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-047	Train 2 X2-856 Feeder Filter C2-856	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
LL-048	F1-325 Waste Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-049	F2-325 Waste Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-050	S1-412 Waste Powder	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-051	S2-412 Waste Powder	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
LL-052	S1-440 Sieve Clean-Out	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-053	S2-440 Sieve Clean-Out	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-054	F1-445 Refuse Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-055	F2-445 Refuse Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-056	F1-553 Refuse Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-057	F2-553 Refuse Hopper	VOC	0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
LL-059	F2-800 Bag Filter	VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
LL-060	F2-810 Bag Filter	VOC	0.01	0.01
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
LL-061	C1-841 Pellet Dryer	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
LL-062	C2-841 Pellet Dryer	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
LL-063	S1-847 Bag Filter	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
LL-064	S2-847 Bag Filter	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
LL-065	C1-400 Compressor Lube Oil Container	VOC	0.45	1.52
LL-066	C2-400 Compressor Lube Oil Container	VOC	0.45	1.52
LL-067	FO-912 Hexene Storage Tank	VOC	0.53	0.81
LL-068	FO-913 Hexene Storage Tank	VOC	0.53	0.81
LL-069		PM	0.03	0.09

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Hopper Car Unloading Bag Filter	PM ₁₀	0.03	0.09
		PM _{2.5}	0.03	0.09
LL-070	Elutriator Cyclone S1-897	PM	0.14	0.60
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.02	0.09
LL-071	Elutriator Cyclone S2-897	PM	0.14	0.60
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.02	0.09
Maintenance, Startup, and Shutdown (MSS)				
LLDPE-MNT	MSS to Atmosphere	VOC MSS	226.2	3.59
		PM MSS	1.70	0.04
		PM ₁₀ MSS	1.70	0.04
		PM _{2.5} MSS	1.70	0.04
LLDPE-TMP	MSS from Temporary Sources	NO _x MSS (7)	79.30	1.04
		CO MSS (7)	573.00	7.53
		VOC MSS (7)	1303.70	14.93

- (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
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - 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
- (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) The emissions contributed only from this permitted facility which is the Linear Low Density Polyethylene (LLDPE) unit. The vents from the LLDPE unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:
A. All vents from the LLDPE unit can vent to EPN 1018 with no vents from the LLDPE unit venting at the same time to EPN 1067.

Emission Sources - Maximum Allowable Emission Rates

B. All vents from the LLDPE unit can vent to EPN 1067 with no vents from the LLDPE unit venting at the same time to EPN 1018.

This exception does not exempt the holder of this permit from the requirements of 30 TAC §§ 101.201 and 101.211.

(7) TPY allowable emission rates for CO MSS, NO_x MSS, and VOC MSS reflect combined cap for control device EPNs LI-01A/B, LLDPE-TMP, 1018 and 1067.

Date: August 11, 2022

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

Unit ID No.	Registration No.	PBR No.	Registration Date

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

Unit ID No.	PBR No.	Version No./Date

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

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Formosa Plastics Corporation, Texas

AUTHORIZING THE OPERATION OF
Formosa Point Comfort Plant
Specialty Pvc Plant
Petrochemical Manufacturing

LOCATED AT
Calhoun County, Texas
Latitude 28° 41' 20" Longitude 96° 32' 50"
Regulated Entity Number: RN100218973

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: O3409 Issuance Date: _____

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 HHHHHHH and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, §§ 113.1555 and 113.1090 which respectively incorporate the 40 CFR Part 63 Subparts by reference.

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. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), 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:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities 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 air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet 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.

- (4) 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)(7) and (a)(7)(A).
 - (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)(7)(B) 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. 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.
- 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)
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(c)(1).
5. 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)
6. 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(c)(2) (relating to Standards: General)
 - C. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - D. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - E. 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)
 - F. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - G. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - H. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - I. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
7. 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.

Additional Monitoring Requirements

8. 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

9. 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, 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
10. 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.
11. 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).

Compliance Requirements

12. 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.
13. 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

- 14. 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

- 15. 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.

Permit Location

- 16. 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)

- 17. 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

Applicable Requirements Summary

Unit Summary	12
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Applicable Requirements Summary	13
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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
CT-01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EG-01	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EG-02	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FUG-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
I-01/I-02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-03	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-05	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SPEC PVC	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
TF-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	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)
CT-01	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
EG-01	EU	63ZZZZ-1	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)
EG-02	EU	63ZZZZ-1	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)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-3 § 61.65(b)(5) [G]§ 61.65(b)(6)	Install compressors with double mechanical seals, or equivalent as in §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR	[G]§ 61.242-3 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(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)
					§ 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	61 Subpart V.	§ 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Open-ended valves and lines not exempted shall comply with the requirements of §61.242-6 of subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	[G]§ 61.65(b)(9) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3) § 61.68(e)	In process wastewater. Vinyl chloride emissions to the atmosphere from in process wastewater are to be reduced as follows. §61.65(b)(9)(i)-(ii)	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) [G]§ 61.67(g)(1) § 61.67(g)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii) § 61.68(a)	§ 61.65(c) § 61.67(f) § 61.68(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2) § 61.71(a)(3)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.68(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 61.68(b) [G]§ 61.68(c) § 61.68(d) § 61.68(e) § 61.68(f) § 61.70(c)		
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) [G]§ 61.242-7(d) [G]§ 61.242-7(e) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(b)(8)(ii)(C) § 61.65(b)(8)(ii)(E) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves may be implemented consistent with the requirements of a plan approved under this subpart.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.65(b)(8)(ii)(A) § 61.65(b)(8)(ii)(B) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.65(b)(8)(ii)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves shall be implemented consistent with subpart V of this part as specified.	[G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 61.67(h)(2)(ii)		
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(i) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install sealless pumps, pumps with double mechanical seals or equivalent per §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-2 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(a) [G]§ 61.242-10 [G]§ 61.242-4 § 61.65(b)(4) [G]§ 61.65(b)(6) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Except for an emergency relief discharge, and as in §61.65(d), there is to be no discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service. Report as specified.	[G]§ 61.242-4 [G]§ 61.245(c) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c)	§ 61.65(a)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(v) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install agitators with double mechanical seals, or equivalent as provided in § 61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 61.67(h)(2)(ii)		
FUG-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHHH	§ §63.11915(a) § §63.1022(a) § §63.1022(b) § §63.1022(c) § §63.1022(d) § §63.1023(a)(1)(i) § §63.1023(a)(1)(ii) § §63.1023(a)(1)(iii) § §63.1023(a)(1)(iv) § §63.1023(a)(2) § §63.1023(b)(1) § §63.1023(b)(2)(i) § §63.1023(b)(3) § §63.1023(b)(4) § §63.1023(b)(5) § §63.1023(b)(6) § §63.1023(c) § §63.1023(d) § §63.1023(e) § §63.1024(a) § §63.1024(c) § §63.1024(d) § §63.1024(e) § §63.1024(f) § §63.1025(b)(1) § §63.1025(b)(2) § §63.1025(b)(3)(ii) § §63.1025(b)(3)(vi) § §63.1025(c) § §63.1025(d) § §63.1025(e)(1) § §63.1025(e)(2) § §63.1027(a) § §63.1027(b)(1) § §63.1027(b)(2) § §63.1027(b)(3)(i) § §63.1027(b)(3)(iv) § §63.1027(b)(3)(v)	For equipment in HAP service (as defined in §63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart UU of this part.	None	§ §63.1038(a) § §63.1038(b)(2) § §63.1038(b)(3) § §63.1038(b)(6) § §63.1038(b)(7) § §63.1038(c)(1)(i) § §63.1038(c)(2) § §63.1038(c)(3) § §63.1038(c)(4) § §63.1038(c)(5) § §63.11985(a)(2) § §63.11985(a)(9)(ii) § §63.11985(b)(2) § §63.11985(c)(7)	§ §63.1039(a)(1)(i) § §63.1039(a)(1)(ii) § §63.1039(a)(1)(iii) § §63.1039(b)(1)(i) § §63.1039(b)(1)(ii) § §63.1039(b)(1)(iii) § §63.1039(b)(1)(iv) § §63.1039(b)(2) § §63.1039(b)(4) § §63.1039(b)(8) § §63.11990(a) § §63.11990(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)
					§ 63.1027(d) § 63.1027(e)(1) § 63.1027(e)(2) § 63.1029(a) § 63.1029(b) § 63.1029(c) § 63.1030(a) § 63.1030(b) § 63.1030(c) § 63.1032(a) § 63.1032(b) § 63.1032(c)(1) § 63.1032(c)(5) § 63.1032(d) § 63.11915(b) § 63.11915(c)(1) § 63.11915(c)(2)				
I-01/I-02	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(A)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2)	None
LPV-03	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
LPV-05	EP	R5121-3	VOC	30 TAC Chapter	§ 115.127(c)(1)(B)	A vent gas stream having a	[G]§ 115.125	§ 115.126	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)
				115, Vent Gas Controls	§ 115.127(c)(1)	combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	§ 115.126(2) § 115.126(3)(B)	§ 115.126(2) § 115.126(3) § 115.126(3)(B)	
SPEC PVC	PRO	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHHH	§ §63.11880(a) § §63.11880(b) § §63.11880(c) § §63.11885 § §63.11890 § §63.11895 § §63.11896 § §63.11900(a) § §63.11900(b) § §63.11900(e) § §63.11905 § §63.11910(a) § §63.11910(b) § §63.11910(c) § §63.11925(a) § §63.11925(b) § §63.11930(a) § §63.11930(b) § §63.11930(c)(2) § §63.11930(d)(1) § §63.11930(d)(3) § §63.11930(e) § §63.11930(f) § § §63.11930(g)(1)(ii) § §63.11930(g)(2) § §63.11930(g)(3) § §63.11930(g)(4) § §63.11930(g)(5) § §63.11930(h)	You must comply with each emission limit and standard specified in Table 1 to this subpart that applies to your existing affected source, and you must comply with each emission limit and standard specified in Table 2 to this subpart that applies to your new affected source.	§ §63.11900(a) § §63.11900(b) § §63.11900(e) § §63.11905 § §63.11910(a) § §63.11910(c) § §63.11920(a)(1)(i) § §63.11920(a)(3) § §63.11920(a)(4)(i) § §63.11920(c) § §63.11920(d) § §63.11920(e) § §63.11920(f) § §63.11920(g) § §63.11920(h) § §63.11925(c) § §63.11925(d) § §63.11925(e)(1) § §63.11925(e)(2) § §63.11925(e)(4) § §63.11925(e)(5) § §63.11925(f) § § §63.11925(g)(2)(iv) § §63.11925(h) § §63.11935(a) § §63.11935(c) § §63.11935(d) § §63.11935(e) § §63.11940(b)(1)	§ §63.11990 § §63.11995	§ §63.11890(c)(2) § §63.11985(a) § §63.11985(b) § §63.11985(c)(1) § §63.11985(c)(7) § §63.11985(c)(9)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.11955(a) § 63.11955(b) § 63.11955(c) § 63.11955(e) § 63.12000 § 63.12005		§ 63.11940(c)(2)(i) § 63.11940(c)(3)(i) § 63.11945(a) § 63.11945(b) § 63.11945(c) § 63.11956 § 63.11960		
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Open-ended valves and lines not exempted shall comply with the requirements of §61.242-6 of subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) [G]§ 61.242-7(d) [G]§ 61.242-7(e) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(b)(8)(ii)(C) § 61.65(b)(8)(ii)(E) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves may be implemented consistent with the requirements of a plan approved under this subpart.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.65(b)(8)(ii)(A) § 61.65(b)(8)(ii)(B) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.65(b)(8)(ii)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) § 61.242-1(a) § 61.242-1(b)	For each process unit subject to this subpart, a formal leak detection and	[G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(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)
					§ 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	repair program for valves shall be implemented consistent with subpart V of this part as specified.	[G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.247(d) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(i) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install sealless pumps, pumps with double mechanical seals or equivalent per §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-2 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(a) [G]§ 61.242-10 [G]§ 61.242-4 § 61.65(b)(4) [G]§ 61.65(b)(6) § 61.65(c)	Except for an emergency relief discharge, and as in §61.65(d), there is to be no discharge to the atmosphere from any relief valve on any equipment in	[G]§ 61.242-4 [G]§ 61.245(c) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c)	§ 61.65(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)
					§ 61.67(h)(1) § 61.67(h)(3)	vinyl chloride service. Report as specified.			
TF-01	EU	63UU-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
TF-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ §63.11915(a) § §63.1020 § §63.1022(a) § §63.1022(a)(1)(i) § §63.1022(a)(1)(ii) § §63.1022(a)(1)(iii) § §63.1022(a)(1)(iv) § §63.1022(b) § §63.1022(c) § §63.1022(d) § §63.1023(a)(2) § §63.1023(b)(1) § §63.1023(b)(2)(i) § §63.1023(b)(3) § §63.1023(b)(4) § §63.1023(b)(5) § §63.1023(b)(6) § §63.1023(c) § §63.1023(d) § §63.1023(e) § §63.1024(a) § §63.1024(c) § §63.1024(d) § §63.1024(e) § §63.1024(f) § §63.1025(a)(1)	For equipment in HAP service (as defined in §63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart UU of this part.	None	§ §63.1038(a) § §63.1038(b)(2) § §63.1038(b)(3) § §63.1038(b)(6) § §63.1038(b)(7) § §63.1038(c)(1)(i) § §63.1038(c)(2) § §63.1038(c)(3) § §63.1038(c)(4) § §63.1038(c)(5) § §63.11985(a)(2) § §63.11985(a)(9)(ii) § §63.11985(b)(2) § §63.11985(c)(7)	§ §63.1039(a)(1)(i) § §63.1039(a)(1)(ii) § §63.1039(a)(1)(iii) § §63.1039(b)(1)(i) § §63.1039(b)(1)(ii) § §63.1039(b)(1)(iii) § §63.1039(b)(1)(iv) § §63.1039(b)(2) § §63.1039(b)(4) § §63.1039(b)(8) § §63.11990(a) § §63.11990(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)
					§ 63.1025(b)(1) § 63.1025(b)(2) § 63.1025(b)(3)(iii) § 63.1025(b)(3)(vi) § 63.1025(c) § 63.1025(d) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1027(a) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(b)(3)(v) § 63.1027(d) § 63.1027(e)(1) § 63.1027(e)(2) § 63.1030(a) § 63.1030(b) § 63.1030(c) § 63.1030(d) § 63.1030(e) § 63.1032(a) § 63.1032(b) § 63.1032(c)(1) § 63.1032(c)(5) § 63.1032(d) § 63.11915(b) § 63.11915(c)(1) § 63.11915(c)(2)				

Additional Monitoring Requirements

Periodic Monitoring Summary	25
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Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CT-01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Permit Shield

Permit Shield 27

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
CT-01	N/A	40 CFR Part 63, Subpart Q	Cooling tower not operated with chromium based water treatment chemicals.
DD-B04	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
DD-B04	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B08	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
DD-B08	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B10	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit exhaust stream that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
DD-B10	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
I-01/I-02	N/A	40 CFR Part 60, Subpart Db	These incinerators are not steam generators.
I-01/I-02	N/A	40 CFR Part 60, Subpart E	These incinerators are not furnaces used in the

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
			process of burning solid waste.
LPV-03	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a vent gas stream that has a combined weight of the VOC emissions that are less than 100 pounds in any continuous 24-hour period;
LPV-05	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a vent gas stream that has a combined weight of the VOC emissions that are less than 100 pounds in any continuous 24-hour period;
SPEC PVC	N/A	40 CFR Part 63, Subpart F	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart G	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart H	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
T-D01	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
T-D02	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.

New Source Review Authorization References

New Source Review Authorization References	30
New Source Review Authorization References by Emission Unit	31

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.: PSDTX1058	Issuance Date: 06/12/2019
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.: 76305	Issuance Date: 06/12/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 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
CT-01	COOLING TOWER NO. 1	76305, PSDTX1058
D2REC	POWDER RECYCLE SYSTEM	106.393/09/04/2000
DD-B04	TRAIN 2 DRYER	76305, PSDTX1058
DD-B08	TRAIN 1A DRYER	76305, PSDTX1058
DD-B10	TRAIN 1B DRYER	76305, PSDTX1058
EF-604A/B	WAREHOUSE BAG FILTER	106.393/09/04/2000
EF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
EG-01	GENERATOR 1	76305, PSDTX1058
EG-02	GENERATOR 2	76305, PSDTX1058
FUG-01	PROCESS AREA PIPING EQUIPMENT	76305, PSDTX1058
I-01/I-02	INCINERATORS/SCRUBBERS	76305, PSDTX1058
LPV-03	LOW PRESSURE VENT TRAINS 1 AND 2 DOWNSTREAM LOSSES	76305, PSDTX1058
LPV-05	LOW PRESSURE VENT TRAINS 1 AND 2 ADDITIVE BUILDING	76305, PSDTX1058
SF-604	WAREHOUSE BAG FILTER	106.393/09/04/2000
SF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
SPEC PVC	SPECIALTY PVC PLANT	76305, PSDTX1058
SPVC-RXFUG	COOLING WATER FUGITIVES	106.371/09/04/2000
T-D01	DIESEL STORAGE TANK	76305, PSDTX1058
T-D02	DIESEL STORAGE TANK	76305, PSDTX1058
TF-01	TANK FARM PIPING EQUIPMENT	76305, PSDTX1058

Appendix A

Acronym List 34

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 ₂ S	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 36

Major NSR Summary Table

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
I-01 and I-02	Incinerator Scrubbers (The TPY rate is for both scrubber stacks combined. The lb/hr rate is for each individual EPN)	VOC	0.54	2.39	11, 12, 13, 14, 15, 16, 17, 24, 40, 45	11, 12, 13, 14, 15, 16, 17, 24, 32, 37, 39, 40, 45	14, 17, 24, 32
		NO _x	14.19	62.15			
		CO	2.00	8.75			
		PM	0.02	0.09			
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
		SO ₂	0.01	0.01			
		HCl	0.26	1.14			
		Cl ₂	0.41	2.22			
		VCM	0.49	2.15			
		VAM	0.03	0.12			
		NH ₃	0.12	0.53			
DD-B08	Train 1A Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B08	Train 1A Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
DD-B10	Train 1B Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B10	Train 1B Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
BD-B04	Train 2 Dryer Combustion Emissions	VOC	0.12	0.52	24, 33, 34	24, 32, 33, 34,37	24, 32
		NO _x	1.11	4.86			
		CO	3.33	14.59			
		PM	2.67	8.18			
		PM ₁₀	0.27	0.82			
		PM _{2.5}	0.27	0.82			
		SO ₂	0.02	0.07			
BD-B04	Train 2 Dryer	VOC	28.41	65.66	7, 9, 24, 33, 34	7, 9, 24, 32, 33, 34, 37	24, 32, 35
		VCM	11.08	19.97			
		VAM	17.33	45.69			
EG-01	Diesel Engine	VOC	19.44	0.51	18	18, 32, 37	32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	for Standby Power	NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
EG-02	Diesel Engine for Standby Power	VOC	19.44	0.51	18	18, 32, 37	32
		NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
T-03	Aqua Ammonia Storage Tank	NH ₃	3.19	0.14		32, 37	32
FUG-01	Process Area Piping Component Fugitives (5)	VOC	0.60	2.63	21, 25, 26, 27, 28, 29	21, 25, 26, 27, 28, 29, 32, 37	25, 29, 32
		VCM	0.57	2.48			
		VAM	0.04	0.15			
		NH ₃	0.03	0.12			
TF-01	Tank Farm Piping Component Fugitives (5)	VOC	0.07	0.29	21, 25, 26, 27, 29	21, 25, 26, 27, 29, 32, 37	21, 25, 29, 32
		VCM	0.05	0.23			
		VAM	0.01	0.06			
CT-01	Cooling Tower No. 1	VOC	1.25	5.48	19	19, 32, 37	32
		VCM	1.19	5.21			
		VAM	0.06	0.27			
		Chlorine Compounds	< 0.01	< 0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM	1.63	4.55			
		PM ₁₀	0.33	1.65			
		PM _{2.5}	< 0.01	0.01			
LPV-01	Low Pressure Vent – Trains 1 and 2 Reactor Opening Losses (6)	VOC	13.05	4.76	33	8, 32, 33, 37, 40	32
		VCM	13.05	4.76			
LPV-03	Low Pressure Vent – Trains 1 and 2 Downstream Losses	VOC	2.68	3.65	33	32, 33, 37	32
		VCM	2.68	3.65			
LPV-04	Low Pressure Vent – Trains 1 and 2 Additive Building	VOC	5.95	3.00	33	32, 33, 37	32
		NH ₃	7.88	6.58			
LPV-05	Low Pressure Vent – Trains 1 and 2 Slurry Treatment Area	VOC	2.70	1.00	33	32, 33, 37	32
		VCM	0.27	0.10			
CD-B02	CoPolymer Check Weigh Bin No. 1	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B18	CoPolymer Resin Bagger	PM	0.50	1.68	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.50	1.68			
		PM _{2.5}	0.02	0.08			
CD-B27	CoPolymer Check Weigh Bin No. 2	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B28	CoPolymer	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	Loading Baghouse	PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
CD-B29	CoPolymer Nuisance Dust Pickup	PM	0.04	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.04	0.12			
		PM _{2.5}	0.01	0.01			
BD-B06	Blending Resin Check Weigh Bin No. 1	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B07	Blending Resin Nuisance Dust Pickup	PM	0.54	1.81	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.54	1.81			
		PM _{2.5}	0.02	0.06			
BD-B10	Train 2 Hopper Vent	PM	0.02	0.02	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.02			
		PM _{2.5}	0.01	0.01			
BD-B19	Blending Resin Bagger	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
BD-B28	Blending Resin Check Weigh Bin No. 2	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B50	Blending Resin Check Weigh Bin No. 3	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
BD-B51	Blending Resin Check Weigh Bin No. 4	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			

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BD-B52	Blending Resin Loading Baghouse	PM	0.03	0.11	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.01	0.01			
BD-B53	Blending Resin Separator	PM	0.08	0.27	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.08	0.27			
		PM _{2.5}	0.01	0.01			
BD-B54	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
BD-B55	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
DD-B12	Grinder No. 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B13	Grinder No. 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B14	Grinder No. 1C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B15	Grinder No. 2A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B16	Grinder No. 2B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			

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		PM _{2.5}	0.02	0.06			
BB-B17	Grinder No. 2C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B20	Train 1 Bagger Station No. 1	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B24	Bagger Station	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B31	Grinder No. 1D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B32	Grinder No. 1E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B33	Grinder No. 1F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B34	Grinder No. 1G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B35	Grinder No. 2D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B36	Grinder No. 2E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B37	Grinder No. 2F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B38	Grinder No. 2G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B39	Separator 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B40	Separator 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B41	Separator 2A	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B42	Separator 2B	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B43	Feed Hopper 1A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B44	Feed Hopper 1B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			

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DD-B45	Underground Product 1A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B46	Underground Product 1B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B47	Feed Hopper 2A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B48	Feed Hopper 2B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B49	Underground Product 2A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B50	Underground Product 2B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
S-01	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-02	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-03	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			

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		PM _{2.5}	0.01	0.02			
S-04	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-05	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-09	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-10	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-11	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-12	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-13	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-14	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-17	Dispersion	PM	0.12	0.42		32, 37	32

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	Resin Silo	PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-18	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-19	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-20	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-25	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
S-26	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
T-D01	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
T-D02	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
WWT-2	Wastewater Treatment Plant	VOC	5.00	18.26	20	20, 32, 37	32
		VCM	0.44	1.60			
		VAM	2.57	9.36			
		NH ₃	2.30	8.40			
SPVC-MNT	Emissions To Atmosphere	VOC	20.54	2.31	40, 41, 42	32, 37, 39, 40, 41, 46	32
		PM	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
		NH ₃	1.70	0.01			

- (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 - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - HCl - hydrogen chloride
 - Chlorine compounds - hypochlorous acid and hydrogen chloride
 - Cl₂ - chlorine
 - VCM - vinyl chloride monomer
 - VAM - vinyl acetate monomer
 - NH₃ - ammonia
- (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) Opening of reactors after every batch for cleaning prior to charging for the next batch.
- (7) Includes MSS emissions.

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON Instructions**

General:

This form is used to allow documentation of the monitoring requirements for units, emission points, groups, and processes subject to compliance assurance monitoring (CAM) and periodic monitoring (PM). To determine if a unit, emission point, group, or process is subject to PM or CAM, review the PM and CAM applicability sections contained in Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122). Refer to 30 TAC Chapter 122 for application submittal requirements.

Table 1a:	CAM/PM Additions
Table 1b:	CAM/PM Control Device Additions
Table 1c:	CAM/PM Case-by-Case Additions
Table 1d:	CAM/PM Case-by-Case Control Device Additions
Table 2a:	CAM/PM Deletions
Table 2b:	CAM/PM Control Device Deletions
Table 2c:	CAM/PM Case-by-Case Deletions
Table 2d:	CAM/PM Case-by-Case Control Device Deletions

Note:

- Complete Tables 1a through 1d, as appropriate, as part of the permit revision process to identify any new *requirements*.
- *Complete Tables 2a through 2d, as appropriate, for the permit revision process to remove requirements that no longer apply.*
- *Complete Tables 1a and, if necessary, 1b if submitting an option number from either a CAM or PM guidance document which identifies a new requirement.*
- *Complete Table 1c and, if necessary, 1d if submitting a new CAM or PM case-by-case determination.*
- *If the unit is a new unit at a site that already has a federal operating permit, see the Texas Commission on Environmental Quality (TCEQ) guidance document entitled "Federal Operating Permit Application Guidance Document" for additional information to aide in the completion of this form.*
- *When completing Tables 1a through 2d for a revision to a site-operating permit (SOP) use the information contained in the Applicable Requirements Summary of the SOP to complete this form.*
- *The owner or operator shall be in compliance with the CAM and /or PM requirements no later than the date of issuance of the SOP. If the CAM additions proposed by the owner or operator require installation, testing, or final verification of the operational status of the monitoring equipment, after the date of SOP issuance, the owner or operator shall include an implementation plan and schedule as an attachment to this form [40 CFR § 64.4(e)]. The details of the CAM implementation plan and schedule will be included in the SOP as an enforceable plan and schedule including milestones such as installation, testing, or final verification of the monitoring equipment [40 CFR § 64.6(d)]. However, in no case shall the CAM schedule for completing the installation, testing, or final verification exceed 180 days after issuance of the SOP.*

- *The owner or operator shall be in compliance with the CAM or PM requirements contained in a general operating permit (GOP) no later than 180 days from the date the GOP containing the CAM or PM requirements is effective.*

The TCEQ also requires that a Core Data Form be submitted with all incoming registrations unless **all** of the following are met: the Regulated Entity Reference Number (RN) and Customer Reference Numbers (CN) 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 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 CN and the RN. 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 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 Web site at, www.tceq.texas.gov/nav/permitting/central_registry/guidance.html.

Please submit all application forms and supporting documents to:		
Who	Where	What
Air Permits Division, TCEQ	Regular, Certified, Priority Mail: Mail Code 163, P.O. Box 13087, Austin, Texas 78711-3087 OR Hand Delivery, Overnight Mail: Mail Code 163, 12100 Park 35 Circle, Building C, Third Floor, Reception Austin, Texas 78753	One original copy of Form OP-CRO1; and the TCEQ Core Data Form
Electronic Web Based Forms	www.tceq.texas.gov/permitting/air/air_permits.html	TCEQ Web site
Appropriate TCEQ Regional Office	To find your Regional Office go to the TCEQ Website at www.tceq.texas.gov/publications/gi/gi-002.html or you can call (512) 239-1250	One original copy of Form OP-CRO1; and the TCEQ Core Data Form

Specific:

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Table 1a: CAM/PM Additions

- ★ **Complete Table 1a only if utilizing a monitoring option contained in a CAM guidance document or a PM guidance document. If choosing to submit a case-by-case determination for either CAM or PM, complete Table 1c of this form.**

I. Identifying Information

- **Account No.:** Enter the primary TCEQ account number for the site if issued (XX-XXXX-X).
- **RN No.:** Enter the regulated entity reference number (RN) for the site if issued. This number is issued by the TCEQ as part of the central registry process. If an RN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; RNXXXXXXXXXX).
- **CN No.:** Enter the customer reference number (CN) if issued. This number is issued by the TCEQ as part of the central registry process. If a CN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; CNXXXXXXXXXX).
- **Permit No.:** Enter the operating permit number, if known (OXXXXX). If this is an initial application submittal for an SOP, a Temporary Operating Permit (TOP), or a GOP, the permit number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The permit number will appear on all correspondence from the TCEQ regarding a specific application or group of applications. The applicant may contact the permit review engineer for assistance.
- **Project No.:** Enter the project number that identifies this specific permitting action. If this is an initial application submittal for (SOP, TOP, or GOP), the project number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The project number will appear on all correspondence from the TCEQ regarding a specific permitting action or group of actions. The applicant may contact the permit review engineer for assistance.
- **Area Name:** Enter the area name used on Form OP-1 (Site Information Summary) of the initial application. If there is only one permit at the site, the area name is the same as the site name (maximum 50 characters).
- **Company Name:** Enter the name of the company, corporation, organization, individual, etc. applying for or holding the referenced permit (maximum 50 characters).

II. Unit/Emission Point/Group/Process Information

- **Revision No.:** 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 (Application Guidance Document for Permit Revision Process), for additional information regarding the permit revision process.
- **Unit/EPN/Group/Process ID No.:** Enter the identification number (ID No.) for the unit, emission point (EPN), group, or process that is subject to CAM or PM.

- **Applicable Form:** Enter the number of the Unit Attribute (UA) forms, which contains the specific information regarding the corresponding emission unit, emission point, group, or process (Forms *OP-UA03*, *OP-UA07*, and *OP-UA10*). For an emission unit, emission point, group, or process for which the only applicable requirement is 30 TAC Chapter 106 or 116, enter *OP-UA01* as the applicable form.

III. Applicable Regulatory Requirement

- **Name:** Enter the name of the underlying applicable requirement for which CAM or PM is required (*30 TAC Chapters 106, 111, 112, 113, 115, 116, 117; NSPS XXX, NESHAP XX*).

Note: When entering 30 TAC Chapter 106 or 116 for New Source Review (NSR) construction authorizations, review the underlying NSR authorization to determine if the emission limitations or standards contained in the construction authorization needs CAM or PM. CAM and PM apply only to the emission limitations or standards, with respect to each regulated air pollutant, contained in the individual construction authorizations required by 30 TAC Chapter 106 or 116.

- **SOP/GOP Index No.:** Enter the SOP or GOP index number for which CAM or PM is required.
- **Pollutant:** Select one of the following codes to identify the pollutant of the underlying applicable requirement for which CAM or PM is required. Enter the code for the pollutant contained in the description.

<u>Code</u>	<u>Description</u>
CO	Carbon monoxide
NO _x	Nitrogen oxides (NO _x)
VOC	Volatile organic compounds
SO ₂	Sulfur dioxide
PB	Lead
PM ₁₀	Particulate matter less than 10 microns
PM	Particulate matter (<i>use this code for any regulatory requirement under any Title 40 Code of Federal Regulations Part 60 [40 CFR Part 60] subpart section or 30 TAC Chapter 111 section where the standard, as designated by the TCEQ Requirements Reference Tables (RRT) and flowchart, is for particulate matter</i>)
PM (OPACITY)	Opacity of particulate matter
OTH	Other

- **Main Standard:** Enter the citation of the applicable main standard of the rule [*§111.XXX(x)(yy)(zz); §60.XXX(x)(yy)(zz)*]. For NSR authorizations enter the PBR citation and version date [*106.XXX/MM/DD/YYYY or XXX/ MM/DD/YYYY*] or the NSR permit number [*NSR-XXXXX*].

<u>Code Format</u>	<u>Description</u>
106.XXX/MM/DD/YYYY	Authorized on or after March 14, 1997
XXX/MM/DD/YYYY	Authorized prior to March 14, 1997

Note: XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number. MM/DD/YYYY = Standard exemption or PBR effective date, approval date, or modification completion date.

IV. Title V Monitoring Information

- **Monitoring Type:** Select one of the following codes to describe the type of monitoring the unit/emission point/group/process is subject to:

<u>Code</u>	<u>Description</u>
CAM	Compliance Assurance Monitoring
PM	Periodic Monitoring

Note: For additional information relating to the applicability of CAM or PM see 30 TAC Chapter 122.

★ **Complete “Unit Size” only if “Monitoring Type” is “CAM.”**

- **Unit Size:** Select one of the following codes to describe the size of the emission unit, emission point, group, or process:

<u>Code</u>	<u>Description</u>
SM	Emission units, emission units associated with emission points, or processes with a pre-control device potential to emit greater than the major source thresholds, but post-control device potential to emit less than the major source thresholds.
LG	Emission units, emission units associated with emission points, or processes with a pre-control device and post-control device potential to emit greater than the major source thresholds.
BOTH	Groups or processes contain both emission units, emission units associated with emission points, or processes with pre-control device potential to emit greater than the major source thresholds, but post-control device potential to emit less than the major source thresholds and a pre-control device and post-control device potential to emit greater than the major source thresholds.

- **CAM/PM Option No.:** For applicants utilizing a monitoring option contained in the CAM guidance document or the PM guidance document, indicate the appropriate option number from the appropriate guidance document. If choosing to submit a case-by-case determination for either CAM or PM, leave this column blank and complete Table 1c of this form.
- **Deviation Limit:** Enter the value, range, or condition in the space provided that establishes the boundary for each indicator of performance (maximum 250 characters consisting of alphanumeric characters). Enter the deviation limit that corresponds with the CAM/PM Option Number contained in Table 1a, Section IV. If entering a deviation limit for CAM, the deviation limit, as defined in 30 TAC § 122.10, must meet the monitoring design criteria specified in 40 CFR § 64.3. In addition, the deviation limit may be expressed as a value, a range, or a condition. The deviation limit may be based on a single maximum or minimum value, if applicable, or at multiple levels that are relevant to distinctly different operating conditions (e.g., high versus low load levels). The deviation limit may be expressed as a function of process variables, expressed as maintaining the applicable parameter in a particular operational status or designated condition, or established as interdependent between more than one indicator.

The CAM or PM guidance document provides either the procedures for establishing the deviation limit or the actual deviation limit based on the CAM or PM option number chosen by the applicant.

In addition, as required by 40 CFR § 64.4 and 30 TAC Chapter 122, submit as an attachment to this form, control device operating parameter data obtained during the most recent performance test (conducted under conditions specified by the underlying applicable requirement), manufacturer's recommendations, engineering calculations, and/or historical data to justify the deviation limit (value, range, or condition) that establishes the boundary for each indicator of performance. Also, if establishing deviation limits based on a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM and PM, the 40 CFR Part 63 monitoring plan can be used as justification for the deviation limits for other applicable requirements.

Example Deviation Limits		
Control Device	Indicator	Deviation Limit
Carbon Adsorption System	Volatile Organic Compound (VOC) Concentration	Maximum VOC Concentration – 20 ppmv
Thermal Incinerator	Combustion Temperature	Minimum Temperature = 1300 °F
Flare	Net Heating Value	Minimum Net Heating Value = 350 Btu/scf
Electrostatic Precipitator	Spark Rate	Minimum Spark Rate = 10 sparks/minute Maximum Spark Rate = 20 sparks/minute
Fabric Filter	Pressure Drop	Minimum Pressure Drop = 6 psia Maximum Pressure Drop = 12 psia
Wet Scrubber	Liquid Flow Rate	Minimum Liquid Flow Rate = Range of 60 gal/min at 100% heat input capacity (Maximum load equal to 40 MMBtu/hr) to 30 gal/min at 60% heat input capacity (minimum load equal to 24 MMBtu/hr).

★ **Complete “CAM/PM Option No.” and “Deviation Limit” only if utilizing more than one monitoring option from the CAM/PM guidance document.**

- **CAM/PM Option NO.:** Enter an additional CAM/PM option number if the monitoring option utilized by the applicant has more than one CAM/PM option number. If the monitoring option utilized by the applicant contains more than two option numbers, fill out an additional Table 1a for the additional CAM/PM option number.
- **Deviation Limit:** Enter the deviation limit that corresponds with the additional CAM/PM option number. See the above instructions contained in Table 1a, Section IV. of this form for the detailed information that pertains to “Deviation Limit.”

V. Control Device Information

★ **Complete “Control Device ID No.” and “Device Type” only if utilizing a control device.**

- **Control Device ID No.:** If applicable, enter the identification number (ID No.) for the control device. If not utilizing a control device, leave this column blank. If more than one control device is used for a unit, add the additional control device(s) ID No(s) to Table 1b.
- **Control Device Type:** Select one of the following codes for the control device type. If more than one control device is used for a unit, add the additional control device(s) type(s) to Table 1b.

<u>Code</u>	<u>Description</u>
DIRFLM	Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
CHILL	Condenser system (chiller)
CATINC	Catalytic incinerator
CRBAD1	Carbon adsorption system (regenerative)
CRBAD2	Carbon adsorption system (non-regenerative)
FLARE	Flare
COMB	Vapor combustor
BOIL1	Steam generating unit (boiler)/process heater (design heat input is less than 44MW)
BOIL2	Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44MW)
ABSOR1	Absorber (caustic absorber)
ABSOR2	Absorber (direct absorption)
WETSCR	Wet scrubber
ESP	Wet or dry electrostatic precipitator
FABFLT	Fabric filter
CYCLN	Cyclone
SCR	Selective catalytic reduction (SCR)
SNCR	Selective non-catalytic reduction (SNCR)
FGR	Flue gas recirculation
SWIS	Steam/water injection system
CATCNV	Catalytic converters
SO2SCR	SO ₂ scrubber
SRUFLR	Sulfur recovery unit with flare
SRUINC	Sulfur recovery unit with incinerator
CVS	Vapor collection system (closed vent system)
OTH	Other control device type

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Table 1b: CAM/PM Control Device Additions

★ **Complete this table only if utilizing a Group ID No. in Table 1a, Section II. or if more than one control device is used for an emission unit.**

- **Unit ID No.:** Enter the identification number (ID No.) for the unit that is subject to CAM or PM. For emission unit groups identified in Table 1a, Section II, each emission unit within a group must be listed separately to correctly identify the specific control devices that are controlling emissions from each emission unit within the group.
- **Control Device ID No.:** Enter the identification number (ID No.) for the control device.
- **Device Type:** Select one of the following codes for the control device type.

<u>Code</u>	<u>Description</u>
DIRFLM	Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
CHILL	Condenser system (chiller)
CATINC	Catalytic incinerator
CRBAD1	Carbon adsorption system (regenerative)
CRBAD2	Carbon adsorption system (non-regenerative)
FLARE	Flare
COMB	Vapor combustor
BOIL1	Steam generating unit (boiler)/process heater (design heat input is less than 44MW)
BOIL2	Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44MW)
ABSOR1	Absorber (caustic absorber)
ABSOR2	Absorber (direct absorption)
WETSCR	Web scrubber
ESP	Wet or dry electrostatic precipitator
FABFLT	Fabric filter
CYCLN	Cyclone
SCR	Selective catalytic reduction (SCR)
SNCR	Selective non-catalytic reduction (SNCR)
FGR	Flue gas recirculation
SWIS	Steam/water injection systems
CATCNV	Catalytic converters
SO2SCR	SO ₂ scrubber

SRUFLR	Sulfur recovery unit with flare
SRUINC	Sulfur recovery unit with incinerator
CVS	Vapor collection system (closed vent system)
OTH	Other control device

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Table 1c: CAM/PM Case-by-case Additions

★ **Complete Table 1c only if submitting a case-by-case determination for either CAM or PM. If choosing to utilize a monitoring option contained in the CAM guidance document or the PM guidance document, fill out Table 1a and, if necessary, Table 1b.**

I. Identifying Information

- **Account No.:** Enter the primary TCEQ account number for the site if issued (XX-XXXX-X).
- **RN No.:** Enter the regulated entity reference number (RN) for the site if issued. This number is issued by the TCEQ as part of the central registry process. If an RN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; RNXXXXXXXXXX).
- **CN No.:** Enter the customer reference number (CN) if issued. This number is issued by the TCEQ as part of the central registry process. If a CN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; CNXXXXXXXXXX).
- **Permit No.:** Enter the operating permit number, if known (OXXXXX). If this is an initial application submittal for an SOP, a TOP, or a GOP, the permit number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The permit number will appear on all correspondence from the TCEQ regarding a specific application or group of applications. The applicant may contact the permit review engineer for assistance.
- **Project No.:** Enter the project number that identifies this specific permitting action. If this is an initial application submittal for (SOP, TOP, or GOP), the project number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The project number will appear on all correspondence from the TCEQ regarding a specific permitting action or group of actions. The applicant may contact the permit review engineer for assistance.
- **Area Name:** Enter the area name used on Form OP-1 (Site Information Summary) of the initial application. If there is only one permit at the site, the area name is the same as the site name (maximum 50 characters).
- **Company Name:** Enter the name of the company, corporation, organization, individual, etc. applying for or holding the referenced permit (maximum 50 characters).

II. Unit/Emission Point/Group/Process Information

- **Revision No.:** 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 (Application Guidance Document for Permit Revision Process) for additional information regarding the permit revision process.
- **Unit/EPN/Group/Process ID No.:** Enter the identification number (ID. No.) for the unit, emission point (EP), group, or process that is subject to CAM or PM.

- **Applicable Form:** Enter the number of the UA forms which contain the specific information regarding the corresponding emission unit, emission point, group, or process (*Forms OP-UA03, OP-UA07, OP-UA10*). For an emission unit, emission point, group, or process for which the only applicable requirement is 30 TAC Chapter 106 or 116, enter Form OP-UA01 as the applicable form.

III. Applicable Regulatory Requirement

- **Name:** Enter the name of the underlying applicable requirement for which CAM or PM is required (*Chapter 106, 111, 112, 113, 115, 116, 117; NSPS XXX, NESHAP XX*).

Note: When entering 30 TAC Chapter 106 or 116 for NSR construction authorizations, review the underlying NSR authorization to determine if the emission limitations or standards contained in the construction authorization needs CAM or PM. CAM and PM apply only to the emission limitations or standards, with respect to each regulated air pollutant, contained in the individual construction authorizations required by 30 TAC Chapter 106 or 116.

- **SOP Index No.:** Enter the standard operating procedure (SOP) index number for which CAM or PM is required.
- **Pollutant:** Enter the pollutant of the underlying applicable requirement for which CAM or PM is required (for pollutant codes and descriptions see instructions for Table 1a, Section III.).
- **Main Standard:** Enter the citation of the applicable main standard of the rule [*§111.XXX(x)(yy)(zz), §60.XXX(x)(yy)(zz)*]. For NSR authorizations enter the PBR citation and version date [*106.XXX/MM/DD/YYYY or XXX/MM/DD/YYYY*] or the NSR permit number [*NSR-XXXXX*].

<u>Code Format</u>	<u>Description</u>
106.XXX/MM/DD/YYYY	Authorized on or after March 14, 1997
XXX/MM/DD/YYYY	Authorized prior to March 14, 1997

Note: XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number; MM/DD/YYYY = Standard exemption or PBR effective date, approval date, or modification completion date.

- **Monitoring Type:** Select one of the following codes to describe the type of monitoring the unit/emission point/group/process is subject to:

<u>Code</u>	<u>Description</u>
CAM	Compliance Assurance Monitoring
PM	Periodic Monitoring

Note: For additional information relating to the applicability of CAM or PM see 30 TAC Chapter 122.

★ Complete “Unit Size” only if “Monitoring Type” is “CAM.”

- **Unit Size:** Select one of the following codes to describe the size of the emission unit or process:

<u>Code</u>	<u>Description</u>
SM	Emission units, emission units associated with emission points, or processes with a pre-control device potential to emit greater than the major source thresholds, but post-control device potential to emit less than the major source thresholds.
LG	Emission units, emission units associated with emission points, or processes with a pre-control device and post-control device potential to emit greater than the major source thresholds.

BOTH

Groups or processes contain both emission units, emission units associated with emission points, or processes with pre-control device potential to emit greater than the major source thresholds, but post-control device potential to emit less than the major source thresholds **and** a pre-control device and post-control device potential to emit greater than the major source thresholds.

- **Deviation Limit:** Enter the value, range, or condition in the space provided that establishes the boundary for each indicator of performance (maximum 250 characters consisting of alphanumeric characters). If entering a deviation limit for CAM, the deviation limit, as defined in 30 TAC § 122.10, must meet the monitoring design criteria specified in 40 CFR§ 64.3. The deviation limit may be based on a single maximum or minimum value, if applicable, or at multiple levels that are relevant to distinctly different operating conditions (e.g., high versus low load levels). The deviation limit may be expressed as a function of process variables, expressed as maintaining the applicable parameter in a particular operational status or designated condition, or established as interdependent between more than one indicator.

For CAM or PM case-by-case determinations, establish the deviation limit in accordance with these instructions. The CAM deviation limits must also be established in accordance with the design and performance requirements of 40 CFR § 64.3.

In addition, as required by 40 CFR § 64.4 and 30 TAC Chapter 122, submit, as an attachment to this form, control device operating parameter data obtained during the most recent performance test (conducted under conditions specified by the underlying applicable requirement), manufacturer's recommendations, engineering calculations, and/or historical data to justify the deviation limit (value, range, or condition) that establishes the boundary for each indicator of performance. Also, if establishing a deviation limits based on a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM and PM, the 40 CFR Part 63 monitoring plan can be used as justification for the deviation limits for other applicable requirements.

Example Deviation Limits		
Control Device	Indicator	Deviation Limit
Carbon Adsorption System	(VOC) Concentration	Maximum VOC Concentration – 20 ppmv
Thermal Incinerator	Combustion Temperature	Minimum Temperature = 1300 °F
Flare	Net Heating Value	Minimum Net Heating Value = 350 Btu/scf
Electrostatic Precipitator	Spark Rate	Minimum Spark Rate = 10 sparks/minute Maximum Spark Rate = 20 sparks/minute
Fabric Filter	Pressure Drop	Minimum Pressure Drop = 6 psia Maximum Pressure Drop = 12 psia
Wet Scrubber	Liquid Flow Rate	Minimum Liquid Flow Rate = Range of 60 gal/min at 100% heat input capacity (Maximum load equal to 40 MMBtu/hr) to 30 gal/min at 60% heat input capacity (minimum load equal to 24 MMBtu/hr).

IV. Control Device Information

★ **Complete “Control Device ID No.” and “Device Type” only if utilizing a control device.**

- **Control Device ID No.:** If applicable, enter the identification for the control device. If not utilizing a control device, then leave this column blank. If more than one control device is used for a unit, add the additional control device(s) ID No.(s) to Table 1d.
- **Device Type:** Select one of the following codes for the control device type. If more than one control device is used for a unit, add the additional control device(s) type(s) to Table 1d.

<u>Code</u>	<u>Description</u>
DIRFLM	Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
CHILL	Condenser system (chiller)
CATINC	Catalytic incinerator
CRBAD1	Carbon adsorption system (regenerative)
CRBAD2	Carbon adsorption system (non-regenerative)
FLARE	Flare
COMB	Vapor combustor
BOIL1	Steam generating unit (boiler)/process heater (design heat input is less than 44MW)
BOIL2	Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44MW)

ABSOR1	Absorber (caustic absorber)
ABSOR2	Absorber (direct absorption)
WETSCR	Wet scrubber
ESP	Wet or dry electrostatic precipitator
FABFLT	Fabric filter
CYCLN	Cyclone
SCR	Selective catalytic reduction (SCR)
SNCR	Selective non-catalytic reduction (SNCR)
FGR	Flue gas recirculation
SWIS	Steam/water injection system
CATCNV	Catalytic converters
SO2SCR	SO2 scrubber
SRUFLR	Sulfur recovery unit with flare
SRUINC	Sulfur recovery unit with incinerator
CVS	Vapor collection system (closed vent system)
OTH	Other control device type

V. CAM Case-by-case

- **Indicator:** Identify one or more indicators of emission control performance for the control device, any associated capture system, any control device or capture system bypass and, if necessary, process at a pollutant-specific emission unit (maximum 100 characters consisting of alphanumeric characters). The indicators identified must be consistent with the requirements of 40 CFR § 64.3. The owner or operator must monitor indicators to detect any bypass of the control device (or capture system) to the atmosphere, if such bypass can occur based on the design of the pollutant-specific emissions unit.

In addition, submit in the form or as an attachment to the form, justification for the proposed indicator in accordance with 40 CFR § 64.4. Also, if choosing to monitor an indicator consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to monitor the proposed indicator for other applicable requirements.

- **Minimum Frequency:** Identify the frequency of conducting the monitoring (maximum 50 characters consisting of alphanumeric characters). The monitoring frequencies must be consistent with the minimum monitoring frequency requirements of 40 CFR § 64.3.

In addition, submit in the form or as an attachment to the form, justification for the proposed monitoring frequency in accordance with 40 CFR § 64.4. Also, if proposing a minimum monitoring frequency consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to monitor at a specific minimum monitoring frequency for other applicable requirements.

- **Averaging Period:** Identify the period over which discrete data points will be averaged for the purpose of determining whether a deviation has occurred (maximum 30 characters consisting of alphanumeric characters). The averaging period must be consistent with the requirements of 40 CFR § 64.3.

In addition, submit in the form or as an attachment to the form, justification for the proposed averaging period in accordance with 40 CFR § 64.4. Also, if proposing an averaging period consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to propose a specific averaging period for other applicable requirements.

- **Quality Assurance and Quality Control Procedures:** Identify quality assurance and quality control procedures that are adequate to ensure the continuing validity of the data. This includes the data collection procedures that will be used (e.g., computerized data acquisition and handling, alarm sensor, or manual log entries based on gauge readings) and the specifications that provide for obtaining data that are representative of the emissions or parameters being monitored (such as calibration frequency, monitoring device accuracy, test methods). The applicant will consider manufacturer recommendations or requirements applicable to the monitoring in developing appropriate quality assurance and quality control practices. The quality assurance and quality control (QA/QC) procedures must be consistent with the requirements of 40 CFR § 64.3.

In addition, submit in the form or as an attachment to the form, justification for the proposed QA/QC procedures in accordance with 40 CFR § 64.4. Also, if proposing QA/QC procedures consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to propose specific QA/QC procedures for other applicable requirements.

- **Verification Procedures:** Identify the verification procedures used to confirm the operational status of the monitoring system. The owner or operator should consider the monitoring equipment manufacturer's requirements or recommendations for installation, calibration, and start-up operation. An example of a verification procedure is utilizing a manufacturer specified type of thermocouple and calibration frequency. The verification procedures must be consistent with the requirements of 40 CFR § 64.3.

In addition, submit in the form or as an attachment to the form, justification for the verification procedures in accordance with 40 CFR § 64.4. Also, if proposing verification procedures consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to propose specific verification procedures for other applicable requirements.

- **Representative Data:** Identify specifications that provide for obtaining data that are representative of the emission or parameters being monitored. This could include such things as the location of the monitoring device and the installation specifications provided by the manufacturer. The procedures for obtaining representative data must be consistent with the requirements of 40 CFR § 64.3.

In addition, submit in the form or as an attachment to the form, justification that the data is representative of the emission or parameters being monitored in accordance with 40 CFR § 64.4. Also, if proposing specifications that provide for obtaining representative data consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from CAM, the 40 CFR Part 63 monitoring plan can be used as justification to propose specifications that provide for obtaining representative data for other applicable requirements.

VI. Periodic Monitoring Case-by-case

- **Indicator:** 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. In addition, submit in the form or as an attachment to the form, justification for the proposed indicator. Also, if choosing to monitor an indicator consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from PM, the 40 CFR Part 63 monitoring plan can be used as justification to monitor the proposed indicator for other applicable requirements.
- **Minimum Frequency:** 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. In addition, submit in the form or as an attachment to the form, justification for the proposed monitoring frequency. Also, if proposing a minimum monitoring frequency consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from PM, the 40 CFR Part 63 monitoring plan can be used as justification to monitor at a specific minimum monitoring frequency for other applicable requirements.
- **Averaging Period:** If applicable, identify the period over which discrete data points will be averaged for the purpose of determining whether a deviation has occurred. In addition, submit, in the form or as an attachment to the form, justification for the proposed averaging period. If an equivalent averaging period in the guidance document cannot be found, specify an averaging period, if applicable, consistent with the characteristics and typical variability of the pollutant-specific emissions unit (including the control device and associated capture system). Such intervals must be commensurate with the time period over which a change in control device performance that would require actions by the owner or operator to return operations within normal ranges or designated conditions is likely to be observed. Also, if proposing an averaging period consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from PM, the 40 CFR Part 63 monitoring plan can be used as justification to propose a specific averaging period for other applicable requirements.
- **Periodic Monitoring Text:** Identify the data collection procedures that will be used (e.g., computerized data acquisition and handling, alarm sensor, or manual log entries based on gauge readings) and procedures that provide for obtaining data (e.g. test methods) (maximum 4000 characters consisting of alphanumeric characters). Also, if proposing monitoring procedures consistent with a monitoring plan submitted to the administrator in accordance with 40 CFR Part 63, attach the monitoring plan to the form. Even though 40 CFR Part 63 emission limits are exempt from PM, the 40 CFR Part 63 monitoring plan can be used as justification to propose monitoring procedures for other applicable requirements.

Submit, as an attachment to this form, justification that the proposed periodic monitoring provides an assurance of compliance with the emission limit or work practice standard that the emission unit is subject to.

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Table 1d: CAM/PM Case-by-case Control Device Additions

★ Complete this table only if utilizing a Group ID No. in Table 1c, Section II. or if more than one control device is used for a unit. Table 1d is to identify control device information for all emission units contained in a group. Complete the following only if utilizing a control device for a unit contained in a group.

- **Emission Unit ID No.:** Enter the identification number (ID No.) for the unit that is subject to CAM or PM and is contained in the group identified in Table 1c, Section II.
- **Control Device ID No.:** Enter the identification number (ID No.) for the control device.
- **Control Device Type:** Select one of the following codes for the control device type.

<u>Code</u>	<u>Description</u>
DIRFLM	Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
CHILL	Condenser system (chiller)
CATINC	Catalytic incinerator
CRBAD1	Carbon adsorption system (regenerative)
CRBAD2	Carbon adsorption system (non-regenerative)
FLARE	Flare
COMB	Vapor combustor
BOIL1	Stream generating unit (boiler) process heater (design heat input is less than 44MW)
BOIL2	Steam generating unit (boiler) heater (design heat input is greater than or equal to 44MW)
ABSOR1	Absorber (caustic absorber)
ABSOR2	Absorber (direct absorption)
WETSCR	Wet scrubber
ESP	Wet or dry electrostatic precipitator
FABFLT	Fabric filter
CYCLN	Cyclone
SCR	Selective catalytic reduction (SCR)
SNCR	Selective non-catalytic reduction (SNCR)
FGR	Flue gas recirculation
SWIS	Steam/water injection systems
CATCNV	Catalytic converters
SO2SCR	SO ₂ scrubber

SRUFLR	Sulfur recovery unit with flare
SRUINC	Sulfur recovery unit with incinerator
CVS	Vapor collection system (closed vent system)
OTH	Other control device type

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Table 2a: CAM/PM Deletions

- ★ **Complete Table 2a only if deleting a monitoring requirement or control device obtained from the CAM guidance document or the PM guidance document. If applicants are choosing to delete a monitoring requirement or a control device for a CAM or PM case-by-case determination, complete Table 2c of this form.**

I. Identifying Information

- **Account No.:** Enter the primary TCEQ account number for the site if issued.
- **RN No.:** Enter the regulated entity reference number (RN) for the site if issued. This number is issued by the TCEQ as part of the central registry process. If an RN has not yet been issued leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; RNXXXXXXXXXX).
- **CN No.:** Enter the customer reference number (CN) if issued. This number is issued by the TCEQ as part of the central registry process. If a CN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; CNXXXXXXXXXX).
- **Permit No.:** Enter the operating permit number, if known (OXXXXX). If this is an initial application submittal for an SOP, a TOP, or a GOP, the permit number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The permit number will appear on all correspondence from the TCEQ regarding a specific application or group of applications. The applicant may contact the permit review engineer for assistance.
- **Project No.:** Enter the project number that identifies this specific permitting action. If this is an initial application submittal for (SOP, TOP, or GOP), the project number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The project number will appear on all correspondence from the TCEQ regarding a specific permitting action or group of actions. The applicant may contact the permit review engineer for assistance.
- **Area Name:** Enter the area name used on Form OP-1 (Site Information Summary) of the initial application. If there is only one permit at the site, the area name is the same as the site name (maximum 50 characters).
- **Company Name:** Enter the name of the company, corporation, organization, individual, etc. applying for or holding the referenced permit (maximum 50 characters).

II. Unit/Emission Point/Group/Process Information

- **Revision No.:** 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 (Application Guidance Document for Permit Revision Process) for additional information regarding the permit revision process.

- **Unit/EPN/Group/Process ID No.:** Enter the identification number (ID No.) for the unit, emission point, group, or process that is subject to CAM or PM or is listed on the applicable requirements summary of the permit.
- **Applicable Form:** Enter the number of the UA forms which contains the specific information regarding the corresponding emission unit, emission point, group, or process (Forms *OP-UA03*, *OP-UA07*, and *OP-UA10*).

III. Applicable Regulatory Requirement

- **Name:** Enter the name of the underlying applicable requirement for which CAM or PM is required (*Chapter 106, 111, 112, 113, 115, 116, 117; NSPS XXX, NESHAP XX*).
- **Note:** When entering 30 TAC Chapter 106 or 116 for NSR construction authorizations, review the underlying NSR authorization to determine if the emission limitations or standards contained in the construction authorization needs CAM or PM. CAM and PM apply only to the emission limitations or standards, with respect to each regulated air pollutant, contained in the individual construction authorizations required by 30 TAC Chapter 106 or 116.
- **SOP/GOP Index No.:** Enter the SOP or GOP index number for which CAM or PM is required.
- **Pollutant:** Enter the pollutant of the underlying applicable requirement for which CAM or PM is required (for pollutant codes and descriptions see instructions for Table 1a, Section III.).
- **Main Standard:** Enter the citation of the applicable main standard of the rule [*§111.XXX(x)(yy)(zz); §60.XXX(x)(yy)(zz)*]. For NSR authorizations enter the PBR citation and version date [*106.XXX/MM/DD/YYYY or XXX/MM/DD/YYYY*] or the NSR permit number [*NSR-XXXXX*].

<u>Code Format</u>	<u>Description</u>
106.XXX/MM/DD/YYYY	Authorized on or after March 14, 1997
XXX/MM/DD/YYYY	Authorized prior to March 14, 1997

Note: XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number; MM/DD/YYYY = Standard exemption or PBR effective date, approval date, or modification completion date.

IV. Title V Monitoring Information

- **Monitoring Type:** Select one of the following codes to describe the type of monitoring the unit/group/process is subject to.

<u>Code</u>	<u>Description</u>
CAM	Compliance Assurance Monitoring
PM	Periodic Monitoring

Note: For additional information relating to the applicability of CAM or PM see 30 TAC Chapter 122.

- **CAM/PM Option No.:** If utilizing a monitoring option contained in the CAM guidance document or the PM guidance document, indicate the appropriate option number from the appropriate guidance document.

V. Control Device Information

★ **Complete “Control Device ID No.” and “Device Type” only if utilizing a control device.**

- **Control Device ID No.:** If applicable, enter the identification number (ID No.) for the control device. If not using a control device, leave this column blank.

- **Device Type:** Enter the control device type (for control device codes and descriptions see instructions for Table 1a, Section V.).

VI. Type of Deletion

- **Monitoring Requirement:** Select “Delete” in the space provided to delete the monitoring requirement identified in Table 2a, Section IV for the unit/emission point/group/process identified in Table 2a, Section II. If deleting only the control device, then leave this column blank
- **Control Device:** Select “Delete” in the space provided to delete the control device identified in Table 2a, Section V and Table 2b for the unit/emission point/group/process identified in Table 2a, Section II. If deleting the monitoring requirement, then leave this column blank.

★ **Complete Table 2b only if deleting multiple control devices for a unit or a group of units and if a “Delete” is located in the space for Table 2a, Section VI. Complete the following only if utilizing a control device for a unit contained in the group.**

Page 6

Table 2b: CAM/PM Case-by-case Control Device Deletion *(of the Forms Tables)*

- **Unit ID No.:** Enter the identification number (ID No.) for the unit/emission point/group/process that is subject to CAM or PM and is contained in the group identified in Table 2a, Section II.
- **Control Device ID No.:** If applicable, enter the identification number (ID No.) for the control device to be deleted.
- **Device Type:** Enter the control device type (for control device codes and descriptions see instructions for Table 1a, Section V.).

Page 7

Table 2c: CAM/PM Case-by-case Deletions

★ **Complete Table 2c only if deleting a monitoring requirement or a control device for a CAM or PM case-by-case determination. If applicants are choosing to delete a monitoring requirement or control device obtained from the CAM guidance document or the PM guidance document complete Table 2a and, if necessary, Table 2b.**

I. Identifying Information

- **Account No.:** Enter the primary TCEQ account number for the site if issued (XX-XXXX-X).
- **RN No.:** Enter the regulated entity reference number (RN) for the site if issued. This number is issued by the TCEQ as part of the central registry process. If an RN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; RNXXXXXXXXXX).
- **CN No.:** Enter the customer reference number (CN) if issued. This number is issued by the TCEQ as part of the central registry process. If a CN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space (maximum 11 characters; CNXXXXXXXXXX).
- **Permit No.:** Enter the operating permit number, if known (OXXXXX). If this is an initial application submittal for an SOP, a TOP, or a GOP, the permit number will be assigned upon receipt by the TCEQ. In this case, enter “TBA” for “to be assigned.” The permit number will appear on all correspondence from the TCEQ regarding a specific application or group of applications. The applicant may contact the permit review engineer for assistance.

- **Project No.:** Enter the project number that identifies this specific permitting action. If this is an initial application submittal for (SOP, TOP, or GOP), the project number will be assigned upon receipt by the TCEQ. In this case, enter "TBA" for "to be assigned." The project number will appear on all correspondence from the TCEQ regarding a specific permitting action or group of actions. The applicant may contact the permit review engineer for assistance.
- **Area Name:** Enter the area name used on Form OP-1 (Site Information Summary) of the initial application. If there is only one permit at the site, the area name is the same as the site name (maximum 50 characters).
- **Company Name:** Enter the name of the company, corporation, organization, individual, etc. applying for or holding the referenced permit (maximum 50 characters).

II. Unit/Emission Point/Group/Process Information

- **Revision No.:** 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 (Application Guidance Document for Permit Revision Process) for additional information regarding the permit revision process.
- **Unit/EPN/Group/Process ID No.:** Enter the identification number (ID No.) for the unit, emission point, group, or process that is subject to CAM or PM.
- **Applicable Form:** Enter the number of the UA form, which contains the specific information regarding the corresponding emission unit, emission point, group, or process (*OP-UA03, OP-UA07, and OP-UA10*).

III. Applicable Regulatory Requirement

- **Name:** Enter the name of the underlying applicable requirement for which CAM or PM is required (*Chapter 106, 111, 112, 113, 115, 116, 117; NSPS XXX, NESHAP XX*).

Note: When entering 30 TAC Chapter 106 or 116 for NSR construction authorizations, review the underlying NSR authorization to determine if the emission limitations or standards contained in the construction authorization needs CAM or PM. CAM and PM apply only to the emission limitations or standards, with respect to each regulated air pollutant, contained in the individual construction authorizations required by Chapter 106 or 116.

- **SOP Index No.:** Enter the SOP index number for which CAM or PM is required.
- **Pollutant:** Enter the pollutant of the underlying applicable requirement for which CAM or PM is required (for pollutant codes and descriptions see instructions for Table 1a, Section III.).
- **Main Standard:** Enter the citation of the applicable main standard of the rule [*§ 111.XXX(x)(yy)(zz); § 60.XXX(x)(yy)(zz)*]. For NSR authorizations enter the PBR citation and version date [*106.XXX/MM/DD/YYYY or XXX/MM/DD/YYYY*] or the NSR permit number [*NSR-XXXXX*].

<u>Code Format</u>	<u>Description</u>
106.XXX/MM/DD/YYYY	Authorized on or after March 14, 1997
XXX/MM/DD/YYYY	Authorized prior to March 14, 1997

Note: XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number; MM/DD/YYYY = Standard exemption or PBR effective date, approval date, or modification completion date.

IV. Title V Monitoring Information

- **Monitoring Type:** Select one of the following codes to describe the type of monitoring the unit/emission point/group/process is subject to:

<u>Code</u>	<u>Description</u>
CAM	Compliance Assurance Monitoring
PM	Periodic Monitoring

Note: For additional information relating to the applicability of CAM or PM, see 30 TAC Chapter 122.

V. Control Device Information★ **Complete “ID No.” and “Type” only if utilizing a control device.**

- **Control Device ID No.:** If applicable, enter the identification number (ID No.) for the control device. If not utilizing a control device, leave this column blank.
- **Control Device Type:** Enter the control device type (for control device codes and descriptions see instructions for Table 1a, Section V.).

VI. Type of Deletion

- **Monitoring Requirement:** Select “Delete” to delete the monitoring requirement identified in the case-by-case determination for the unit/process identified in Table 2c, Section II. If deleting only the control device, then select “Blank” to leave this column blank.
- **Control Device:** Select “Delete,” to delete the control device identified in Table 2c, Section V. for the unit/process identified in Table 2c, Section II. If deleting monitoring requirement, then select “Blank” to leave this column blank.

Page 8**Table 2d: CAM/PM Control Device Deletions**

- ★ **Complete Table 2d only if deleting multiple control devices for a unit or a group of units and if a “Delete” is located in the space for Table 2c, Section VI. Complete the following only if utilizing a control device for a unit contained in the group.**
 - **Unit ID No.:** Enter the identification number (ID No.) for the unit/emission point/group/process that is subject to CAM or PM and is contained in the group identified in Table 2c, Section II.
 - **Control Device ID No.:** If applicable, enter the identification number (ID No.) for the control device to be deleted.
 - **Control Device Type:** Enter the control device type (for control device codes and descriptions see instructions for Table 1a, Section V.).

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 1)
Federal Operating Permit Program
Table 1a: CAM/PM Additions

I. Identifying Information		
Account No.:	RN No.:	CN:
Permit No.:	Project No.:	
Area Name:		
Company Name:		
II. Unit/Emission Point/Group/Process Information		
Revision No.: N/A		
Unit/EPN/Group/Process ID No.:		
Applicable Form:		
III. Applicable Regulatory Requirement		
Name:		
SOP/GOP Index No.:		
Pollutant:		
Main Standard:		
IV. Title V Monitoring Information		
Monitoring Type:		
Unit Size:		
CAM/PM Option No.:		
Deviation Limit:		
CAM/PM Option No.:		
Deviation Limit:		
V. Control Device Information		
Control Device ID No.:		
Control Device Type:		

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 2)
Federal Operating Permit Program**

Table 1b: CAM/PM Control Device Additions

Emission Unit ID No.	Control Device ID No.	Control Device Type

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: CB-0038-Q	RN No.: 100218973	CN: 600130017
Permit No: O3409		Project No.: 36586
Area Name: Specialty PVC Plant		
Company Name: Formosa Plastics Corporation, Texas		
II. Unit/Emission Point/Group/Process Information		
Revision No.: N/A		
Unit/EPN/Group/Process ID No.: CT-01		
Applicable Form: OP-UA15		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R1111-2		
Pollutant: Opacity		
Main Standard: 30 TAC 111.111(a)(1)(C)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: Visible Emissions		Minimum Frequency: Once per year
Averaging Period: N/A		

I. Identifying Information

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

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 4)
Federal Operating Permit Program**

Table 1d: CAM/PM Case-By-Case Control Device Additions

Emission Unit ID No.	Control Device ID No.	Control Device Type

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 5)
Federal Operating Permit Program
Table 2a: CAM/PM Deletions

I. Identifying Information
Account No.:
RN No.:
CN:
Permit No.:
Project No.:
Area Name
Company Name
II. Unit/Emission Point/Group/Process Information
Revision No.: N/A
Unit/EPN/Group/Process ID No.:
Applicable Form:
III. Applicable Regulatory Requirement
Name:
SOP/GOP Index No.:
Pollutant: VOC
Main Standard:
IV. Title V Monitoring Information
Monitoring Type:
CAM/PM Option No.:
V. Control Device Information
Control Device ID No.:
Control Device Type:
VI. Type of Deletion
Monitoring Requirement:
Control Device:

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 6)**

Table 2b: CAM/PM Control Device Deletions

Emission Unit ID No.	Control Device ID No.	Control Device Type

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 7)
Federal Operating Permit Program
Table 2c: CAM/PM Case-By-Case Deletions**

I. Identifying Information
Account No.:
RN No.:
CN:
Permit No.:
Project No.:
Area Name:
Company Name:
II. Unit/Emission Point/Group/Process Information
Revision No.:
Unit/EPN/Group/Process ID No.:
Applicable Form:
III. Applicable Regulatory Requirement
Name:
SOP/GOP Index No.:
Pollutant:
Main Standard:
IV. Title V Monitoring Information
Monitoring Type:
V. Control Device Information
Control Device ID No.:
Control Device Type:
VI. Type of Deletion
Monitoring Requirement:
Control Device:

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 8)
Federal Operating Permit Program**

Table 2d: CAM/PM Case-By-Case Device Deletions

Emission Unit ID NO.	Control Device ID No.	Control Device Type

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Friday, December 13, 2024 10:03:14 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image371068.png](#)
[image092620.png](#)
[App A.3 OP-2.pdf](#)
[OP-REQ2.docx](#)
[WDP_03409_36586_Review_Draft_12092024_Comments.docx](#)

Vasant

Good morning. Please find attached an updated WDP with comments from Formosa. Also, Formosa would like to add a few things to the permit shield around 115 non-applicability for the OP-UA15 sources. Please find attached an OP-REQ2 and OP-2 for that request; no change to characteristics from previous representations, just want to add the permit shield for them. Thank you for your help, and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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SLR is committed to the responsible and ethical use of relevant technologies including artificial intelligence (AI). If you have any questions or concerns, please contact us directly.

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: December 09, 2024 1:31 PM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: WDP review -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Thx for your response. I have conducted a technical review of your renewal application for your Title V Permit (03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant). An electronic copy of a Working Draft Permit (WDP) is attached for your review/comments. The WDP contains TCEQ's determination of the applicable state/federal requirements based on the information submitted in your application, and any updates provided thereafter. Appreciate if you would acknowledge receipt of this email.

Please review the WDP (version 12092024) and submit any comments by COB, Friday, 12/20/2024 or earlier. You must submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please review the "SOP Technical Review Fact Sheet" located at https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf. This guidance contains important information regarding WDP review and comment procedures. Note that a Certification by Responsible Official (Form OP-CRO1) for any as yet uncertified submittals, including the WDP response, is required to be submitted (via STEERS or as a hard copy). I will advise you at a later date regarding the specifics of the OP-CRO1 form submittal. Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>
Sent: Friday, December 6, 2024 11:29 AM
To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning and thank you for your follow up questions. We have answered them in line below. Outside of that, two engines and associated diesel tanks (EG-03 and EG-04, and T-D03 and T-D04) have been taken out of service and removed from the NSR permit, and do not need to be added to the T5 permit. We have updated the forms (UA2, UA3, and SUMR) accordingly to no longer reference them.

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111 – **OP-MON and UA15 updated and attached, dated for today.**
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form. **Updated UA2 attached, also no longer referencing EG-03 and EG-04 as noted above.**
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15. **OP-SUMR and OP-2 updated to include those units, and strike out the EG-03, EG-04, T-D03, and T-D04 requests as noted above.**
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well. **OP-SUMR updated to include the PBRSUP units.**

Please let us know if you have any other questions or comments and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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Austin, TX, United States 77377



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SLR is committed to the responsible and ethical use of relevant technologies including artificial intelligence (AI). If you have any questions or concerns, please contact us directly.

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: November 26, 2024 3:47 PM
To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

OK. Revised due date is 12/6/2024 or earlier. Thx.

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 3:44 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. We will start assembling these responses, but given the holidays and various people on vacation for it, can we have until Friday 12/6/24?

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:41 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Following info is requested (please include/add dates on all forms submitted):

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form.
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15.
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well.

Appreciate your response by Wed., 12/4/24 or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 9:54 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant,

Good morning. We sent a follow up addressing those applicability issues on September 5, see attached. We think that covered it all; please review and let us know if you need anything additional. Thanks and have a great day!

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 8:32 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I am checking to see if you are "still looking into a few applicability issues" or all applicability issues have been resolved and I can proceed with the preparation of the working draft of the permit.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, September 5, 2024 2:22 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHHH control requirements, they are not subject to MACT HHHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHHH, and this vessel opening operation is covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115

rules as well. See attached OP-UA15 documenting the exemption.

- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHHH, but these vessel opening operations are covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?

9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

You don't often get email from vasant.chaphekar@tceq.texas.gov. [Learn why this is important](#)

Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no

applicable state or federal requirements.

11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager

Environmental Dept.

Formosa Plastics Corporation, Texas

Phone: 361-987-7463 Mobile: 361-920-9401



Formosa Plastics

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBRSUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of

compliance for compliance with applicable emission limits for registered PBRs?

3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711
Ph: (512) 239-1341
Fax: (512) 239-1400
Vasant.Chaphekar@tceq.texas.gov
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FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Formosa Plastics Corporation, Texas

AUTHORIZING THE OPERATION OF
Formosa Point Comfort Plant
Specialty PVC Plant
Petrochemical Manufacturing

LOCATED AT
Calhoun County, Texas
Latitude 28° 41' 20" Longitude 96° 32' 50"
Regulated Entity Number: RN100218973

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: O3409 Issuance Date: _____

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 HHHHHHH and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, §§ 113.1555 and 113.1090 which respectively incorporate the 40 CFR Part 63 Subparts by reference.

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. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), 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:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities 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 air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet 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.

- (4) 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)(7) and (a)(7)(A).
 - (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)(7)(B) 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. 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.
- 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)
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(c)(1).
5. 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)
6. 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(c)(2) (relating to Standards: General)
 - C. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - D. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - E. 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)
 - F. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - G. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - H. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - I. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
7. 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.

New Source Review Authorization Requirements

8. 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 terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated May 1, 2024 in the application for project 36586, 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

9. 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.
10. 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).

Compliance Requirements

11. 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.
12. 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

- 13. 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

- 14. 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. The permit holder shall comply with the following 40 CFR Part 82, Subpart E requirements for labeling products using ozone-depleting substances:
 - (i) Title 40 CFR § 82.100 (relating to Purpose)
 - (ii) Title 40 CFR § 82.102(a)(1) - (3), (b), (c) (relating to Applicability);
 - (iii) Title 40 CFR § 82.104 (relating to Definitions)
 - (iv) Title 40 CFR § 82.106 - 112 (relating to Warning Statements and Labels)
 - (v) Title 40 CFR § 82.114 (relating to Labeling Containers of Controlled [ozone - depleting] Substances)
 - (vi) Title 40 CFR § 82.116 (relating to Incorporation of Products Manufactured with Controlled [ozone-depleting] Substances)
 - (vii) Title 40 CFR § 82.120 (relating to Petitions)
 - (viii) Title 40 CFR § 82.122 (relating Certification, Recordkeeping, and Notice requirements)
 - (ix) Title 40 CFR § 82.124 (relating to Prohibitions)

Permit Location

- 15. 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)

16. 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

Applicable Requirements Summary

Unit Summary	12
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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
CT-01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EG-01	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EG-02	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FUG-01	FUGITIVE EMISSION UNITS	N/A	61F-1	40 CFR Part 61, Subpart F	No changing attributes.
FUG-01	FUGITIVE EMISSION UNITS	N/A	63UU-1	40 CFR Part 63, Subpart EEEE	No changing attributes.
FUG-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
I-01/I-02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-03	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LPV-05	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SPEC PVC	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	No changing attributes.
TF-01	FUGITIVE EMISSION UNITS	N/A	61F-1	40 CFR Part 61, Subpart F	No changing attributes.
TF-01	FUGITIVE EMISSION UNITS	N/A	63UU-1	40 CFR Part 63, Subpart EEEE	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TF-01	MISCELLANEOUS UNITS	N/A	HHHHHHH-1	40 CFR Part 63, Subpart HHHHHHH	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)
CT-01	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
EG-01	EU	63ZZZZ-1	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)
EG-02	EU	63ZZZZ-1	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)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(v) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install agitators with double mechanical seals, or equivalent as provided in § 61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(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)
							§ 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)		§ 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Open-ended valves and lines not exempted shall comply with the requirements of §61.242-6 of subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	[G]§ 61.65(b)(9) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3) § 61.68(e)	In process wastewater. Vinyl chloride emissions to the atmosphere from in process wastewater are to be reduced as follows. §61.65(b)(9)(i)-(ii)	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) [G]§ 61.67(g)(1) § 61.67(g)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii) § 61.68(a) § 61.68(b) [G]§ 61.68(c) § 61.68(d) § 61.68(e)	§ 61.65(c) § 61.67(f) § 61.68(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2) § 61.71(a)(3)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.68(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 61.68(f) § 61.70(c)		
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) [G]§ 61.242-7(d) [G]§ 61.242-7(e) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(b)(8)(ii)(C) § 61.65(b)(8)(ii)(E) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves may be implemented consistent with the requirements of a plan approved under this subpart.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.65(b)(8)(ii)(A) § 61.65(b)(8)(ii)(B) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.65(b)(8)(ii)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves shall be implemented consistent with subpart V of this part as specified.	[G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(iii) § 61.242-1(a) § 61.242-1(b)	Install compressors with double mechanical seals, or equivalent as in §61.66. If	[G]§ 61.242-3 [G]§ 61.245(b) [G]§ 61.245(c)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(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)
					§ 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-3 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(i) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install sealless pumps, pumps with double mechanical seals or equivalent per §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-2 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
FUG-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(a) [G]§ 61.242-10 [G]§ 61.242-4 § 61.65(b)(4) [G]§ 61.65(b)(6) § 61.65(c) § 61.67(h)(1)	Except for an emergency relief discharge, and as in §61.65(d), there is to be no discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service.	[G]§ 61.242-4 [G]§ 61.245(c) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c)	§ 61.65(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)
					§ 61.67(h)(3)	Report as specified.			
FUG-01	EU	63UU-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
FUG-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ §63.11915(a) § §63.1022(a) § §63.1022(b) § §63.1022(c) § §63.1022(d) § §63.1023(a)(1)(i) § §63.1023(a)(1)(ii) § §63.1023(a)(1)(iii) § §63.1023(a)(1)(iv) § §63.1023(a)(2) § §63.1023(b)(1) § §63.1023(b)(2)(i) § §63.1023(b)(3) § §63.1023(b)(4) § §63.1023(b)(5) § §63.1023(b)(6) § §63.1023(c) § §63.1023(d) § §63.1023(e) § §63.1024(a) § §63.1024(c) § §63.1024(d) § §63.1024(e) § §63.1024(f) § §63.1025(b)(1) § §63.1025(b)(2) § §63.1025(b)(3)(ii)	For equipment in HAP service (as defined in §63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart UU of this part.	None	§ §63.1038(a) § §63.1038(b)(2) § §63.1038(b)(3) § §63.1038(b)(6) § §63.1038(b)(7) § §63.1038(c)(1)(i) § §63.1038(c)(2) § §63.1038(c)(3) § §63.1038(c)(4) § §63.1038(c)(5) § §63.11985(a)(2) § §63.11985(a)(9)(ii) § §63.11985(b)(2) § §63.11985(c)(7)	§ §63.1039(a)(1)(i) § §63.1039(a)(1)(ii) § §63.1039(a)(1)(iii) § §63.1039(b)(1)(i) § §63.1039(b)(1)(ii) § §63.1039(b)(1)(iii) § §63.1039(b)(1)(iv) § §63.1039(b)(2) § §63.1039(b)(4) § §63.1039(b)(8) § §63.11990(a) § §63.11990(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)
					§ 63.1025(b)(3)(vi) § 63.1025(c) § 63.1025(d) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1027(a) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(b)(3)(v) § 63.1027(d) § 63.1027(e)(1) § 63.1027(e)(2) § 63.1029(a) § 63.1029(b) § 63.1029(c) § 63.1030(a) § 63.1030(b) § 63.1030(c) § 63.1032(a) § 63.1032(b) § 63.1032(c)(1) § 63.1032(c)(5) § 63.1032(d) § 63.11915(b) § 63.11915(c)(1) § 63.11915(c)(2)				
I-01/I-02	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(A)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 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)
LPV-03	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
LPV-05	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
SPEC PVC	PRO	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ §63.11880(a) § §63.11880(b) § §63.11880(c) § §63.11885 § §63.11890 § §63.11895 § §63.11896 § §63.11900(a) § §63.11900(b) § §63.11900(e) § §63.11905 § §63.11910(a) § §63.11910(b) § §63.11910(c) § §63.11925(a) § §63.11925(b) § §63.11930(a) § §63.11930(b)	You must comply with each emission limit and standard specified in Table 1 to this subpart that applies to your existing affected source, and you must comply with each emission limit and standard specified in Table 2 to this subpart that applies to your new affected source.	§ §63.11900(a) § §63.11900(b) § §63.11900(e) § §63.11905 § §63.11910(a) § §63.11910(c) § §63.11920(a)(1)(i) § §63.11920(a)(3) § §63.11920(a)(4)(i) § §63.11920(c) § §63.11920(d) § §63.11920(e) § §63.11920(f) § §63.11920(g) § §63.11920(h) § §63.11925(c) § §63.11925(d) § §63.11925(e)(1)	§ §63.11990 § §63.11995	§ §63.11890(c)(2) § §63.11985(a) § §63.11985(b) § §63.11985(c)(1) § §63.11985(c)(7) § §63.11985(c)(9)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.11930(c)(2) § 63.11930(d)(1) § 63.11930(d)(3) § 63.11930(e) § 63.11930(f) § 63.11930(g)(1)(ii) § 63.11930(g)(2) § 63.11930(g)(3) § 63.11930(g)(4) § 63.11930(g)(5) § 63.11930(h) § 63.11955(a) § 63.11955(b) § 63.11955(c) § 63.11955(e) § 63.12000 § 63.12005		§ 63.11925(e)(2) § 63.11925(e)(4) § 63.11925(e)(5) § 63.11925(f) § 63.11925(g)(2)(iv) § 63.11925(h) § 63.11935(a) § 63.11935(c) § 63.11935(d) § 63.11935(e) § 63.11940(b)(1) § 63.11940(c)(2)(i) § 63.11940(c)(3)(i) § 63.11945(a) § 63.11945(b) § 63.11945(c) § 63.11956 § 63.11960		
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Open-ended valves and lines not exempted shall comply with the requirements of §61.242-6 of subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) [G]§ 61.242-7(d) [G]§ 61.242-7(e) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8)	For each process unit subject to this subpart, a formal leak detection and repair program for valves may be implemented consistent with the	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.65(b)(8)(ii)(A) § 61.65(b)(8)(ii)(B)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.65(b)(8)(ii)(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)
					§ 61.65(b)(8)(i) § 61.65(b)(8)(ii)(C) § 61.65(b)(8)(ii)(E) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	requirements of a plan approved under this subpart.	§ 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)		§ 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves shall be implemented consistent with subpart V of this part as specified.	[G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(i) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install sealless pumps, pumps with double mechanical seals or equivalent per §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-2 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(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)
					§ 61.67(h)(1) § 61.67(h)(3)		§ 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.71(a)(2)	[G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
TF-01	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(a) [G]§ 61.242-10 [G]§ 61.242-4 § 61.65(b)(4) [G]§ 61.65(b)(6) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Except for an emergency relief discharge, and as in §61.65(d), there is to be no discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service. Report as specified.	[G]§ 61.242-4 [G]§ 61.245(c) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c)	§ 61.65(a)
TF-01	EU	63UU-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
TF-01	EU	HHHHHH H-1	112(B) HAPS	40 CFR Part 63, Subpart HHHHHHH	§ §63.11915(a) § §63.1020 § §63.1022(a) § §63.1022(a)(1)(i) § §63.1022(a)(1)(ii) § §63.1022(a)(1)(iii) § §63.1022(a)(1)(iv) § §63.1022(b) § §63.1022(c) § §63.1022(d) § §63.1023(a)(2) § §63.1023(b)(1) § §63.1023(b)(2)(i) § §63.1023(b)(3)	For equipment in HAP service (as defined in §63.12005), you must comply with the requirements in paragraphs (a) through (c) of this section. (a) Requirement for certain equipment in subpart UU of this part. You must comply with §§63.1020 through 63.1025, 63.1027, 63.1029 through 63.1032, and 63.1034 through 63.1039 of subpart	None	§ §63.1038(a) § §63.1038(b)(2) § §63.1038(b)(3) § §63.1038(b)(6) § §63.1038(b)(7) § §63.1038(c)(1)(i) § §63.1038(c)(2) § §63.1038(c)(3) § §63.1038(c)(4) § §63.1038(c)(5) § §63.11985(a)(2) § §63.11985(a)(9)(ii) § §63.11985(b)(2) § §63.11985(c)(7)	§ §63.1039(a)(1)(i) § §63.1039(a)(1)(ii) § §63.1039(a)(1)(iii) § §63.1039(b)(1)(i) § §63.1039(b)(1)(ii) § §63.1039(b)(1)(iii) § §63.1039(b)(1)(iv) § §63.1039(b)(2) § §63.1039(b)(4) § §63.1039(b)(8) § §63.11990(a) § §63.11990(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)
					§ 63.1023(b)(4) § 63.1023(b)(5) § 63.1023(b)(6) § 63.1023(c) § 63.1023(d) § 63.1023(e) § 63.1024(a) § 63.1024(c) § 63.1024(d) § 63.1024(e) § 63.1024(f) § 63.1025(a)(1) § 63.1025(b)(1) § 63.1025(b)(2) § 63.1025(b)(3)(ii) § 63.1025(b)(3)(vi) § 63.1025(c) § 63.1025(d) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1027(a) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(b)(3)(v) § 63.1027(d) § 63.1027(e)(1) § 63.1027(e)(2) § 63.1030(a) § 63.1030(b) § 63.1030(c) § 63.1030(d) § 63.1030(e) § 63.1032(a) § 63.1032(b) § 63.1032(c)(1) § 63.1032(c)(5) § 63.1032(d) § 63.11915(b)	UU of this part.			

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ §63.11915(c)(1) § §63.11915(c)(2)				

Additional Monitoring Requirements

Periodic Monitoring Summary	27
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Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CT-01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 15% averaged over a six-minute period for any source having a total flow rate greater than or equal to 100,000 acfm.	
<p>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.</p> <p>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.</p>	

Permit Shield

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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
CT-01	N/A	40 CFR Part 63, Subpart Q	Cooling tower not operated with chromium based water treatment chemicals.
DD-B04	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B08	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
DD-B10	N/A	40 CFR Part 63, Subpart DDDDD	Unit does not meet definition of a boiler and process heater as defined in §63.7575 since the combustion gases touch the process directly and there is no heat transfer medium.
I-01/I-02	N/A	40 CFR Part 60, Subpart Db	These incinerators are not steam generators.
I-01/I-02	N/A	40 CFR Part 60, Subpart E	These incinerators are not furnaces used in the process of burning solid waste.
SPEC PVC	N/A	40 CFR Part 63, Subpart F	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart G	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this section.
SPEC PVC	N/A	40 CFR Part 63, Subpart H	Specialty PVC Plant does not manufacture as a primary product one or more of the chemicals listed in §63.100(b)(1)(i) or (b)(1)(ii) of this

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
			section.
T-D01	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
T-D02	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.

New Source Review Authorization References

New Source Review Authorization References	32
New Source Review Authorization References by Emission Unit	33

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.: PSDTX1058	Issuance Date: 06/12/2019
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.: 76305	Issuance Date: 06/12/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number:	Version No./Date:
Number:	Version No./Date:
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 09/04/2000
Number:	Version No./Date:
Number:	Version No./Date:

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
CT-01	COOLING TOWER NO. 1	76305, PSDTX1058
D2REC	POWDER RECYCLE SYSTEM	106.393/09/04/2000
DD-B04	TRAIN 2 DRYER	76305, PSDTX1058
DD-B08	TRAIN 1A DRYER	76305, PSDTX1058
DD-B10	TRAIN 1B DRYER	76305, PSDTX1058
EF-604A/B	WAREHOUSE BAG FILTER	106.393/09/04/2000
EF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
EG-01	GENERATOR 1	76305, PSDTX1058
EG-02	GENERATOR 2	76305, PSDTX1058
FUG-01	PROCESS AREA PIPING EQUIPMENT	76305, PSDTX1058
I-01/I-02	INCINERATORS/SCRUBBERS	76305, PSDTX1058
LPV-03	LOW PRESSURE VENT TRAINS 1 AND 2 DOWNSTREAM LOSSES	76305, PSDTX1058
LPV-04	LOW PRESSURE VENT TRAINS 1 AND 2 ADDITIVE BUILDING	76305, PSDTX1058
SF-604	WAREHOUSE BAG FILTER	106.393/09/04/2000
SF-605	WAREHOUSE BAG FILTER	106.393/09/04/2000
SPEC PVC	SPECIALTY PVC PLANT	76305, PSDTX1058
SPVC-RXFUG	COOLING WATER FUGITIVES	106.371/09/04/2000
T-D01	DIESEL STORAGE TANK	76305, PSDTX1058
T-D02	DIESEL STORAGE TANK	76305, PSDTX1058
TF-01	TANK FARM PIPING EQUIPMENT	76305, PSDTX1058

Appendix A

Acronym List 36

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 ₂ S	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 38

Major NSR Summary Table

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
I-01 and I-02	Incinerator Scrubbers (The TPY rate is for both scrubber stacks combined. The lb/hr rate is for each individual EPN)	VOC	0.54	2.39	11, 12, 13, 14, 15, 16, 17, 24, 40, 45	11, 12, 13, 14, 15, 16, 17, 24, 32, 37, 39, 40, 45	14, 17, 24, 32
		NO _x	14.19	62.15			
		CO	2.00	8.75			
		PM	0.02	0.09			
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
		SO ₂	0.01	0.01			
		HCl	0.26	1.14			
		Cl ₂	0.41	2.22			
		VCM	0.49	2.15			
		VAM	0.03	0.12			
		NH ₃	0.12	0.53			
DD-B08	Train 1A Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B08	Train 1A Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			

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		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
DD-B10	Train 1B Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B10	Train 1B Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
BD-B04	Train 2 Dryer Combustion Emissions	VOC	0.12	0.52	24, 33, 34	24, 32, 33, 34,37	24, 32
		NO _x	1.11	4.86			
		CO	3.33	14.59			
		PM	2.67	8.18			
		PM ₁₀	0.27	0.82			
		PM _{2.5}	0.27	0.82			
		SO ₂	0.02	0.07			
BD-B04	Train 2 Dryer	VOC	28.41	65.66	7, 9, 24, 33, 34	7, 9, 24, 32, 33, 34, 37	24, 32, 35
		VCM	11.08	19.97			
		VAM	17.33	45.69			
EG-01	Diesel Engine	VOC	19.44	0.51	18	18, 32, 37	32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	for Standby Power	NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
EG-02	Diesel Engine for Standby Power	VOC	19.44	0.51	18	18, 32, 37	32
		NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
T-03	Aqua Ammonia Storage Tank	NH ₃	3.19	0.14		32, 37	32
FUG-01	Process Area Piping Component Fugitives (5)	VOC	0.60	2.63	21, 25, 26, 27, 28, 29	21, 25, 26, 27, 28, 29, 32, 37	25, 29, 32
		VCM	0.57	2.48			
		VAM	0.04	0.15			
		NH ₃	0.03	0.12			
TF-01	Tank Farm Piping Component Fugitives (5)	VOC	0.07	0.29	21, 25, 26, 27, 29	21, 25, 26, 27, 29, 32, 37	21, 25, 29, 32
		VCM	0.05	0.23			
		VAM	0.01	0.06			
CT-01	Cooling Tower No. 1	VOC	1.25	5.48	19	19, 32, 37	32
		VCM	1.19	5.21			
		VAM	0.06	0.27			
		Chlorine Compounds	< 0.01	< 0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM	1.63	4.55			
		PM ₁₀	0.33	1.65			
		PM _{2.5}	< 0.01	0.01			
LPV-01	Low Pressure Vent – Trains 1 and 2 Reactor Opening Losses (6)	VOC	13.05	4.76	33	8, 32, 33, 37, 40	32
		VCM	13.05	4.76			
LPV-03	Low Pressure Vent – Trains 1 and 2 Downstream Losses	VOC	2.68	3.65	33	32, 33, 37	32
		VCM	2.68	3.65			
LPV-04	Low Pressure Vent – Trains 1 and 2 Additive Building	VOC	5.95	3.00	33	32, 33, 37	32
		NH ₃	7.88	6.58			
LPV-05	Low Pressure Vent – Trains 1 and 2 Slurry Treatment Area	VOC	2.70	1.00	33	32, 33, 37	32
		VCM	0.27	0.10			
CD-B02	CoPolymer Check Weigh Bin No. 1	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B18	CoPolymer Resin Bagger	PM	0.50	1.68	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.50	1.68			
		PM _{2.5}	0.02	0.08			
CD-B27	CoPolymer Check Weigh Bin No. 2	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B28	CoPolymer	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
	Loading Baghouse	PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
CD-B29	CoPolymer Nuisance Dust Pickup	PM	0.04	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.04	0.12			
		PM _{2.5}	0.01	0.01			
BD-B06	Blending Resin Check Weigh Bin No. 1	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B07	Blending Resin Nuisance Dust Pickup	PM	0.54	1.81	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.54	1.81			
		PM _{2.5}	0.02	0.06			
BD-B10	Train 2 Hopper Vent	PM	0.02	0.02	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.02			
		PM _{2.5}	0.01	0.01			
BD-B19	Blending Resin Bagger	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
BD-B28	Blending Resin Check Weigh Bin No. 2	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B50	Blending Resin Check Weigh Bin No. 3	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
BD-B51	Blending Resin Check Weigh Bin No. 4	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
BD-B52	Blending Resin Loading Baghouse	PM	0.03	0.11	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.01	0.01			
BD-B53	Blending Resin Separator	PM	0.08	0.27	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.08	0.27			
		PM _{2.5}	0.01	0.01			
BD-B54	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
BD-B55	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
DD-B12	Grinder No. 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B13	Grinder No. 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B14	Grinder No. 1C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B15	Grinder No. 2A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B16	Grinder No. 2B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			

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		PM _{2.5}	0.02	0.06			
BB-B17	Grinder No. 2C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B20	Train 1 Bagger Station No. 1	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B24	Bagger Station	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B31	Grinder No. 1D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B32	Grinder No. 1E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B33	Grinder No. 1F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B34	Grinder No. 1G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B35	Grinder No. 2D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B36	Grinder No. 2E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B37	Grinder No. 2F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B38	Grinder No. 2G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B39	Separator 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B40	Separator 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B41	Separator 2A	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B42	Separator 2B	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B43	Feed Hopper 1A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B44	Feed Hopper 1B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			

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DD-B45	Underground Product 1A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B46	Underground Product 1B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B47	Feed Hopper 2A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B48	Feed Hopper 2B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B49	Underground Product 2A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B50	Underground Product 2B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
S-01	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-02	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-03	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM _{2.5}	0.01	0.02			
S-04	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-05	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-09	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-10	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-11	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-12	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-13	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-14	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-17	Dispersion	PM	0.12	0.42		32, 37	32

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	Resin Silo	PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-18	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-19	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-20	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-25	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
S-26	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
T-D01	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
T-D02	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
WWT-2	Wastewater Treatment Plant	VOC	5.00	18.26	20	20, 32, 37	32
		VCM	0.44	1.60			
		VAM	2.57	9.36			
		NH ₃	2.30	8.40			
SPVC-MNT	Emissions To Atmosphere	VOC	20.54	2.31	40, 41, 42	32, 37, 39, 40, 41, 46	32
		PM	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
		NH ₃	1.70	0.01			

- (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 - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - HCl - hydrogen chloride
 - Chlorine compounds - hypochlorous acid and hydrogen chloride
 - Cl₂ - chlorine
 - VCM - vinyl chloride monomer
 - VAM - vinyl acetate monomer
 - NH₃ - ammonia
- (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) Opening of reactors after every batch for cleaning prior to charging for the next batch.
- (7) Includes MSS emissions.

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

General:

The purpose of this form is to document negative applicability from potentially applicable requirements or to document duplicative, redundant, and or contradicting requirements that have been superseded by a more stringent or equivalent requirement for units, groups, and processes when a permit shield is requested. Negative applicability or superseded requirement determinations when a permit shield is NOT requested may be documented on this form OR the appropriate OP-UA form.

A negative applicability determination is any regulatory citation that provides the basis whereby every operating condition of an emission unit is not subject to a regulation. For example; Title 40 Code of Federal Regulation § 60.110b(a) [40 CFR § 60.110b(a)] could be the regulatory basis for a negative applicability determination for a VOC storage tank of less than 75 cubic meters; therefore, the storage tank is completely exempt from 40 CFR Part 60, Subpart Kb.

Note: Numerous regulatory citations appear to authorize exemptions to qualifying units from those regulations. However, closer examination typically reveals that there are still some requirements which must still be met (such as monitoring and/or recordkeeping).

For certain emission units subject to certain 40 CFR Part 63 standards, other federal regulations may apply. In many instances one of the overlapping regulations may specify which rule supersedes the other. The regulation may state that the owner or operator only has to comply with a specific subpart after the compliance date or it may state that compliance with the subpart is deemed to be in or constitute compliance with other subparts. Although superseded rules do not qualify as negative applicability determinations, it has been determined that these instances can be documented on the Form OP-REQ2, if the applicant elects to comply only with the superseding requirement. For example; a Group 1 or Group 2 Storage Tank, subject to 40 CFR Part 63, Subpart G, may not be required to comply with 40 CFR Part 60, Subpart Kb due to rule overlap of 40 CFR Part 63, Subpart G. In this case, the permit applicant may request a permit shield from 40 CFR Part 60, Subpart Kb. In this case, the applicant must submit the superseding requirement citation, § 63.110(b), and a textual description of the superseding determination, if they elect to comply with only the superseding requirement.

When this form is used for an emission unit which has one or more potential applicable requirements, the applicant must list all the requirements for which negative applicability or superseded requirement determinations can be made. Once the negative applicability or superseded requirement determinations have been made, indicate the citation and reason for the non-applicability or superseded requirement in the appropriate columns. Indicate the determinations for all potentially applicable requirements for each emission unit before listing the next unit.

Negative applicability or superseded requirement determinations for potentially applicable requirements, confirmed by the TCEQ, may be approved as a permit shield (see instructions outlined in Area Wide Applicability Determinations, Form OP-REQ1, to request a permit shield). However, if a permit shield is requested, an OP-REQ2 is always required. For additional information relating to permit shields, refer to the TCEQ guidance document entitled "Permit Shield Guidance (www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/permit_shield.pdf)".

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 (RNXXXXXXXX) and Permit Number (OXXXX), if assigned.

Specific:**Unit Action Indicator (AI):**

Only complete this section for the permit revision/renewal. Enter “A” if the entry is a permit addition. Otherwise, enter “D” to indicate a deletion.

Revision No.:

Complete this section only for the permit revision/renewal. Enter the number identified on Form OP-2 (Application for Permit Revision). This number will link the specific negative applicable requirement determination to the appropriate revision.

Unit/Group/Process:**ID NO.:**

Enter the identification number (ID No.) (maximum 10 characters) of the unit, group, or process as listed on Form OP-SUM (Individual Unit Summary).

Applicable Form:

Enter the number of the UA form which contains the specific information for the corresponding emission unit, emission point, or process (i.e., for flares enter “OP-UA7” entitled “Flares”) if the unit/emission point, process has other applicable requirements. If negative applicability determinations are only being substantiated on this form by a textual description of the reason, and the emission unit, emission point, or process has no other positive applicability, enter “OP-REQ2.” The Applicable Form entered on OP-REQ2 must match the applicable form entered on OP-SUM for the emission unit, emission point, or process.

Potentially Applicable Regulatory Name:

Enter the name of the potentially applicable requirement (maximum 25 characters) for which negative applicability or superseded requirement is being demonstrated.

Note: Permit shields cannot be granted for permit authorizations of any kind (i.e. - PSD, NSR permit, Acid Rain, etc.).

Negative Applicability or Superseded Requirement Citation:

Enter the citation of the paragraph of the rule that was used to determine negative applicability or superseded requirements. Provide the citation detail to the level of the paragraph allowing the exemption, exclusion, or non-applicability. If there is more than one citation for determining negative applicability or superseded requirements, select the most appropriate or the clearest (least likely to be misinterpreted). Negative applicability or superseded requirement determinations by the applicant are subject to auditing during the permit application review. The applicant must always indicate the negative applicability or superseded requirement citation on the OP-REQ2. For examples on the level of detail for citations, see table below (maximum 36 characters).

Example Applicable Regulatory Requirements*

Regulation	Name (Input Format)	Citation (Input Format)
30 TAC Chapters 111, 112, 113, 115 and 117	Chapter 111	§ 111.XXX(x)(yy)(zz)
	Chapter 112	§ 112.XXX(x)(yy)(zz)
	Chapter 113	§ 113.XXX(x)(yy)(zz)
	Chapter 115, Storage of VOCs	§ 115.XXX(x)(yy)(zz)
	Chapter 117, ICI	§ 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-Y+, 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

Negative Applicability/Superseded Requirement Reason:

Enter a textual description indicating the reason for the negative applicability or superseded requirement determination. If a permit shield is requested, the textual description provided will be recreated as the *Basis of Determination* for the permit shield in the permit. The description may include rule text, rule preamble, or other text resulting from a historical rule interpretation, EPA applicability determination Index (ADI), or case law. Use multiple lines if necessary (maximum 250 characters).

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
12/11/2024	03409	100218973

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability/Superseded Requirement Citation	Negative Applicability/Superseded Requirement Reason
A		DD-B08	OP-UA15	30 TAC 115 Subchapter B Division 2	30 TAC 115.127(c)(4)	Combustion device exhausts
A		DD-B10	OP-UA15	30 TAC 115 Subchapter B Division 2	30 TAC 115.127(c)(4)	Combustion device exhausts
A		BD-B04	OP-UA15	30 TAC 115 Subchapter B Division 2	30 TAC 115.127(c)(4)	Combustion device exhausts
A		LPV-03	OP-UA15	30 TAC 115 Subchapter B Division 2	30 TAC 115.127(c)(1)(B)	Emissions less than 100 lb per 24 hour period
A		LPV-05	OP-UA15	30 TAC 115 Subchapter B Division 2	30 TAC 115.127(c)(1)(B)	Emissions less than 100 lb per 24 hour period

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality**

Date:	
Permit No.:	
Regulated Entity No.:	
Company Name:	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA? <input type="checkbox"/> YES <input type="checkbox"/> NO	
I. Application Type	
Indicate the type of application:	
<input type="checkbox"/> Renewal	
<input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
<input type="checkbox"/> Significant Revision	
<input type="checkbox"/> Revision Requesting Prior Approval	
<input type="checkbox"/> Administrative Revision	
<input type="checkbox"/> Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	<input type="checkbox"/> YES <input type="checkbox"/> NO
For GOP Revisions Only	<input type="checkbox"/> YES <input type="checkbox"/> NO

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 (continued)
Texas Commission on Environmental Quality**

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: (Check the appropriate box[es].)
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> VOC</div><div><input type="checkbox"/> NO_x</div><div><input type="checkbox"/> SO₂</div><div><input type="checkbox"/> PM₁₀</div><div><input type="checkbox"/> CO</div><div><input type="checkbox"/> Pb</div><div><input type="checkbox"/> HAP</div></div>
Other:
IV. Reference Only Requirements (For reference only)
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
V. Delinquent Fees and Penalties
Notice: This form will not be processed until all delinquent fees and/or penalties owed to 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.

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

Date:
Permit No.:
Regulated Entity No.:
Company Name:

Using the table below, provide a description of the revision.

			Unit/Group	Process		
Revision No.	Revision Code	New Unit	ID No.	Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

Date:
Permit No.:
Regulated Entity No.:
Company Name:
I. Significant Revision <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i>
A. Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <input type="checkbox"/> YES <input type="checkbox"/> 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? <input type="checkbox"/> YES <input type="checkbox"/> NO

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Friday, December 6, 2024 11:31:16 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image730692.png](#)
[image527717.png](#)
[App A.3 OP-2.pdf](#)
[App D.2 OP-UA2.pdf](#)
[App D.3 OP-UA3.pdf](#)
[App D.6 OP-UA15.pdf](#)
[OP-MON CT-01.pdf](#)
[OP-SUMR.pdf](#)

Vasant

Good morning and thank you for your follow up questions. We have answered them in line below. Outside of that, two engines and associated diesel tanks (EG-03 and EG-04, and T-D03 and T-D04) have been taken out of service and removed from the NSR permit, and do not need to be added to the T5 permit. We have updated the forms (UA2, UA3, and SUMR) accordingly to no longer reference them.

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111 – **OP-MON and UA15 updated and attached, dated for today.**
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form. **Updated UA2 attached, also no longer referencing EG-03 and EG-04 as noted above.**
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15. **OP-SUMR and OP-2 updated to include those units, and strike out the EG-03, EG-04, T-D03, and T-D04 requests as noted above.**
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well. **OP-SUMR updated to include the PBRSUP units.**

Please let us know if you have any other questions or comments and have a great day.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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SLR is committed to the responsible and ethical use of relevant technologies including artificial intelligence (AI). If you have any questions or concerns, please contact us directly.

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:47 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

OK. Revised due date is 12/6/2024 or earlier. Thx.

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 3:44 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. We will start assembling these responses, but given the holidays and various people on vacation for it, can we have until Friday 12/6/24?

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 3:41 PM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hi Conor,

Following info is requested (please include/add dates on all forms submitted):

1. Periodic monitoring - OP-MON for CT-01, UA15 subject to Ch 111
2. Engine units EG-01/02/03/04, UA2, MACT ZZZZ, EMER-B code is only for RICE located at an area source. Assume revised code is EMER-A. Please re-submit UA2 form.
3. Please submit OP-SUMR and OP-1 for all units (except I-01/I-02) listed on UA15. Unit description, preconstruction authorization, etc. info needed to define new units listed on the form. OP-SUMR form submitted earlier does not list all the units on UA15.
4. Do you want to include all units listed in OP-PBRSUP form in the FOP? If yes, you will need to submit OP-SUMR for these units as well.

Appreciate your response by Wed., 12/4/24 or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Tuesday, November 26, 2024 9:54 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant,

Good morning. We sent a follow up addressing those applicability issues on September 5, see attached. We think that covered it all; please review and let us know if you need anything additional. Thanks and have a great day!

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: November 26, 2024 8:32 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I am checking to see if you are "still looking into a few applicability issues" or all applicability issues have been resolved and I can proceed with the preparation of the working draft of the permit.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Thursday, September 5, 2024 2:22 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHHH control requirements, they are not subject to MACT HHHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHHH, and this vessel opening operation is covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115

rules as well. See attached OP-UA15 documenting the exemption.

- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHHH, but these vessel opening operations are covered under the unit ID SPEC-PVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

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Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?

9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

You don't often get email from vasant.chaphekar@tceq.texas.gov. [Learn why this is important](#)

Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBR SUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no

applicable state or federal requirements.

11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

You don't often get email from vasant.chaphekar@tceq.texas.gov. [Learn why this is important](#)

Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager

Environmental Dept.

Formosa Plastics Corporation, Texas

Phone: 361-987-7463 Mobile: 361-920-9401



Formosa Plastics

From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBRSUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of

compliance for compliance with applicable emission limits for registered PBRs?

3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711
Ph: (512) 239-1341
Fax: (512) 239-1400
Vasant.Chaphekar@tceq.texas.gov
[Take our customer satisfaction survey at www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

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**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR**

[Table 1](#)

Date	Permit No.	Regulated Entity No.
12/6/2024	O3409	100218973

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
	1	CT-01	OP-UA15	Cooling Tower No. 1		76305	PSDTX1058
	2	EG-03	OP-UA2	Diesel Engine for Standby Fire Water Pump		76305	PSDTX1058
	3	EG-04	OP-UA2	Diesel Engine for Standby Power		76305	PSDTX1058
	4	T-D03	OP-UA3	Diesel Storage Tank		76305	PSDTX1058
	5	T-D04	OP-UA3	Diesel Storage Tank		76305	PSDTX1058
A	6	DD-B08	OP-UA15	Train 1A Dryer		76305	PSDTX1058
A	7	DD-B10	OP-UA15	Train 1B Dryer		76305	PSDTX1058
A	8	DD-B04	OP-UA15	Train 2 Dryer		76305	PSDTX1058
A	9	LPV-03	OP-UA15	Low Pressure Vent Trains 1 and 2 Downstream Losses		76305	PSDTX1058
A	10	LPV-04	OP-UA15	Low Pressure Vent Trains 1 and 2 Additive Building		76305	PSDTX1058

TCEQ-10344 (APDG 5767v7, Revised 05/20) OP-SUMR

This form is for use by facilities subject to air quality permit requirements and may be revised periodically.

Page ____ of ____

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR**

[Table 1](#)

Date	Permit No.	Regulated Entity No.
12/6/2024	O3409	100218973

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
A	11	SPVC-RXFUG	OP-PBRSUP	Cooling Water Fugitives		106.371/09/04/2000	
A	12	EF-604A/B	OP-PBRSUP	Warehouse Bag Filter		106.393/09/04/2000	
A	13	EF-605	OP-PBRSUP	Warehouse Bag Filter		106.393/09/04/2000	
A	14	SF-604	OP-PBRSUP	Warehouse Bag Filter		106.393/09/04/2000	
A	15	SF-605	OP-PBRSUP	Warehouse Bag Filter		106.393/09/04/2000	
A	16	D2REC	OP-PBRSUP	Powder Recycle System		106.393/09/04/2000	

**Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)**

Federal Operating Permit Program

Submitted 12/6/2024

Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: CB-0038-Q	RN No.: 100218973	CN: 600130017
Permit No: O3409	Project No.: 36586	
Area Name: Specialty PVC Plant		
Company Name: Formosa Plastics Corporation, Texas		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 1		
Unit/EPN/Group/Process ID No.: CT-01		
Applicable Form: OP-UA15		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R1111-2		
Pollutant: Opacity		
Main Standard: 30 TAC 111.111(a)(1)(C)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Same as PM-P-001		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: Same as PM-P-001	Minimum Frequency: Once per year	
Averaging Period: N/A		
Periodic Monitoring Text: Same as PM-P-001		

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
12/6/2024	03409	100218973

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
CT-01	R1111-2	NO		OTHER	NONE	72+	100+

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)

Federal Operating Permit Program

Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)

Subchapter B: Vent Gas Control

Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
12/6/2024	03409	10218973

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
I-01/I-02	R5121-1	NO	NO	CLASVOC				
DD-B08	R5121-2	NO	YES					
DD-B10	R5121-2	NO	YES					
BD-B04	R5121-2	NO	YES					
LPV-03	R5121-3	NO	NO	CLASVOC		100-	30K+	
LPV-05	R5121-3	NO	NO	CLASVOC		100-	30K+	

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 4)
Federal Operating Permit Program
Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
12/6/2024	03409	100218973

Emission Point ID No.	SOP Index No.	Alternate Control Requirement	ACR ID No.	Control Device Type	Control Device ID No.
I-01/I-02	R5121-1	NONE		DIRFLM	I-01/I-02

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
12/6/2024	03409	100218973

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	WW Tank Control	Maximum TVP	Storage Vessel Description	AMEL ID No.	Guidepole	Reid Vapor Pressure	Control Device ID No.
T-D01	60KB-1	PTLQ-3	10K-							
T-D02	60KB-1	PTLQ-3	10K-							

**Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality**

Date	Permit No.	Regulated Entity No.
12/6/2024	O3409	RN100218973

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
T-D01	R5112-1	NO		VOC2	C1K-			
T-D02	R5112-1	NO		VOC2	C1K-			

**Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)**

Federal Operating Permit Program

Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

**Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality**

Date	Permit No.	Regulated Entity No.
12/6/2024	O3409	100218973

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
EG-01	63ZZZZ-1	MAJOR	500+	02-06		EMER-A	CI
EG-02	63ZZZZ-1	MAJOR	500+	02-06		EMER-A	CI

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality**

Date:	
Permit No.:	
Regulated Entity No.:	
Company Name:	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA? <input type="checkbox"/> YES <input type="checkbox"/> NO	
I. Application Type	
Indicate the type of application:	
<input type="checkbox"/> Renewal	
<input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
<input type="checkbox"/> Significant Revision	
<input type="checkbox"/> Revision Requesting Prior Approval	
<input type="checkbox"/> Administrative Revision	
<input type="checkbox"/> Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	<input type="checkbox"/> YES <input type="checkbox"/> NO
For GOP Revisions Only	<input type="checkbox"/> YES <input type="checkbox"/> NO

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 (continued)
Texas Commission on Environmental Quality**

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:
(Check the appropriate box[es].)

☐ VOC ☐ NO_x ☐ SO₂ ☐ PM₁₀ ☐ CO ☐ Pb ☐ HAP

Other:

IV. Reference Only Requirements (For reference only)

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? ☐ YES ☐ NO ☐ N/A

V. Delinquent Fees and Penalties

Notice: This form will not be processed until all delinquent fees and/or penalties owed to 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.

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

Date:
Permit No.:
Regulated Entity No.:
Company Name:

Using the table below, provide a description of the revision.

			Unit/Group	Process		
Revision No.	Revision Code	New Unit	ID No.	Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

Date:
Permit No.:
Regulated Entity No.:
Company Name:
I. Significant Revision <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i>
A. Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <input type="checkbox"/> YES <input type="checkbox"/> 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? <input type="checkbox"/> YES <input type="checkbox"/> NO

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSE](#)
Subject: RE: Renewal application -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Thursday, September 5, 2024 2:23:11 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image151212.png](#)
[image475997.png](#)
[OP-REQ2.pdf](#)
[App D.6 OP-UA15.pdf](#)

Vasant

Good afternoon. As noted in the previous email response, we were still looking into a few applicability issues. See below for our responses (as well as a few updated forms attached). Please let us know if you have any questions or need anything else.

- T-03 is an aqueous ammonia storage tank and has no applicability since it does not emit VOC, nor is it subject to a MACT or NSPS standard
- DD-B08, B10 and BD-B04 – These dryers have no applicability
 - They are not subject to MACT DDDDD because the combustion gases touch the process directly, and do not qualify as heaters under the rule. We have attached an OP-REQ2 to add this negative applicability to the permit shield
 - They are not subject to MACT HHHHHHH because they come after the resin stripper in the process. Because they come after the resin stripper used to meet the MACT HHHHHHH control requirements, they are not subject to MACT HHHHHHH
 - They are not subject to 30 TAC 115 because they have the potential to emit less than 100 lb/24 hours of the target VOCs, and they are also combustion unit exhausts. See attached OP-UA15 documenting the exemption.
- LPV-01 – This is reactor opening for MSS venting. It is subject to MACT HHHHHHH, and this vessel opening operation is covered under the unit ID SPECPVC, since that ID includes references to vessel opening MSS requirements.
- LPV-03/05 – These IDs cover collected system leaks and are not regulated MACT HHHHHHH process vents. They do not have the potential to emit more than 100 lb/24 hours of target VOCs, and are thus exempt from 115 rules as well. See attached OP-UA15 documenting the exemption.
- LPV-04 – This is a building fugitive unit ID, and is not regulated under MACT HHHHHHH or 30 TAC 115
- WWT-2 – This water treatment system has no applicability
 - This unit is not subject to MACT HHHHHHH because it comes after the WWT-1 stripper used for MACT compliance, and the other streams it treats are stormwater streams with no rule applicability
 - This unit is not subject to 115 because the facility is in Calhoun county, and wastewater rules under 115 do not apply to Calhoun county
- SPVC-MNT is subject to MACT HHHHHHH, but these vessel opening operations are covered under the unit ID SPECPVC, since that ID includes references to vessel opening MSS requirements

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 22, 2024 7:38 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Good morning Conor,

I have received your email. I will review your submission and advise if any additional information is needed.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Friday, July 19, 2024 3:11 PM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?
9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation

Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

You don't often get email from vasant.chaphekar@tceq.texas.gov. [Learn why this is important](#)

Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no applicable state or federal requirements.
11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,

Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
 - a. The other registered PBRs at this site are associated with other units not covered by this Title V Permit for SPVC
2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation
Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,

Thx for your response. Conor – I will add you to the mailing list for this project.

Vasant

From: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Sent: Thursday, May 2, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Hello Vasant,

Conor Braman is our 3rd party environmental consultant for this permitting project. Please address all correspondence pertaining to this permit application, including any updates to myself and Conor at cbraman@slrconsulting.com.

We will work to provide your initial request as noted in the email below as soon as possible.

We also look forward to working with you on this permit renewal.

Thank you,

LeAnn Usoff

Air Permitting Assistant Manager

Environmental Dept.

Formosa Plastics Corporation, Texas

Phone: 361-987-7463 Mobile: 361-920-9401



From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP 03409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBRSUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBRSUP and OP-REQ1 form (page 88) as needed.
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Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163
Austin, TX 78711

Ph: (512) 239-1341

Fax: (512) 239-1400

Vasant.Chaphekar@tceq.texas.gov

Take our customer satisfaction survey at www.tceq.texas.gov/customersurvey

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Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
CT-01	R1111-2	NO		OTHER	NONE	72+	100+

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)**

Federal Operating Permit Program

Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)

Subchapter B: Vent Gas Control

Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	10218973

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
I-01/I-02	R5121-1	NO	NO	CLASVOC				
DD-B08	R5121-2	NO	YES					
DD-B10	R5121-2	NO	YES					
BD-B04	R5121-2	NO	YES					
LPV-03	R5121-3	NO	NO	CLASVOC		100-	30K+	
LPV-05	R5121-3	NO	NO	CLASVOC		100-	30K+	

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 4)
Federal Operating Permit Program
Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Emission Point ID No.	SOP Index No.	Alternate Control Requirement	ACR ID No.	Control Device Type	Control Device ID No.
I-01/I-02	R5121-1	NONE		DIRFLM	I-01/I-02

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
8/23/2024	03409	100218973

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability/Superseded Requirement Citation	Negative Applicability/Superseded Requirement Reason
A		DD-B08	OP-UA5	MACT DDDDD	40 CFR 63.7575	There is no heat transfer medium, the combustion gases touch the process directly.
A		DD-B10	OP-UA5	MACT DDDDD	40 CFR 63.7575	There is no heat transfer medium, the combustion gases touch the process directly.
A		BD-B04	OP-UA5	MACT DDDDD	40 CFR 63.7575	There is no heat transfer medium, the combustion gases touch the process directly.

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Friday, July 19, 2024 3:13:17 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image590726.png](#)
[image314947.png](#)
[App A.5 PBR SUP.pdf](#)
[App A.6 OP-SUMR.pdf](#)
[App D.3 OP-UA3.pdf](#)

Vasant

Good afternoon. Please see a response to your request below.

1. I have attached the updated form with all the date fields filled out.
2. The two PBRs referenced are for completely different units with their own T5 permits (176741 is for Olefins 1, and 176819 is for Utilities 1). They do not need to be included or referenced in this permit for Specialty PVC
3. I have added EG-03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
4. I have added T-D03 and 04 to the OP-SUMR as requested. They existed on the PSD permit previously, but were not included on the Title V.
5. I have updated the form to reflect the correct code PTLQ-3
6. I have put the index as R5112-1 (These tanks are exempt from 115 requirements due to low vapor pressure (diesel fuel))
7. These units exist in the current permit dated 11/21/2019, I am not sure what you're asking for here?
8. This unit exists in the current permit I have dated 11/21/2019, I am not sure what you're asking for here?
9. The NSR permit requires that temperature and oxygen be monitored on a 6 minute basis, which exceeds the frequency of weekly temperature monitoring as required in the standard PM for vapor combustors, so adding a PM on top of that does not add anything new. The units are also subject to the PVC MACT, which is a MACT written after 1990 and thus they are not subject to CAM.
10. We are still looking into applicability for these units and will need a bit more time to respond
11. The site as a whole has other units subject to MACT FFFF, but there are no processes subject to MACT FFFF in the Specialty PVC unit. The OP-REQ1 was answered correctly.

Please let us know if you have any questions or need anything else (other than a response to 10 that we are still working on). Thanks and have a great weekend.

Conor

Conor Braman

(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

E cbraman@slrconsulting.com

SLR International Corporation

Austin, TX, United States 77377



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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: July 10, 2024 9:00 AM

To: Conor Braman <cbraman@slrconsulting.com>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Good morning Conor,

I have completed the initial technical review of your renewal application and have noted the following deficiencies that need to be resolved:

1. OP-PBRSUP that was attached to your email dated May 20, 2024, needs to be resubmitted to show the same date on each page of the form. E.g., Tables B and C do not show a date.
2. Please confirm pending PBR registration/project numbers - 176741/375681; 176819/376146 do not apply to this Title V permit.
3. Need to submit OP-SUMR to document changes/revisions to units. E.g., EG-03 and EG-4 appear to be new units - need preconstruction authorization, unit description, etc. See comments 4, 7 and 8 related to OP-SUMR.
4. Same as item 3 for new units T-D03 and T-D04. Need to submit OP-SUMR.
5. OP-UA3, page 3, units T-D01/2/3/4, index 60KB-1, product stored code YES is invalid. Please resubmit form with the correct code.
6. OP-UA3, page 4, units T-D01/2/3/4, index 60KB-1 - index number appears to be incorrect since applicable regulation is 30 TAC Chapter 115. Please resubmit form with the correct index number.
7. OP-UA12, page 78, units FUG-01 and TF-01, index 61F-1 - these units appear to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
8. OP-UA15, page 1, unit CT-01, index R1111-2 - this unit appears to be new. Submit OP-SUMR to indicate new units. Provide NSR authorization and unit description.
9. OP-UA15, unit I-01/I-02, index R5121-1 - please confirm this unit is not subject to PM or CAM requirements to demonstrate compliance with 30 TAC Chapter 115.112(c)(1) standard.
10. Please confirm EPNs T-03, DD-B08/10, BD-B04, LPV-01/3/4/5, WWT-2, SPVC-MNT listed in NSR/PSD permit have no applicable state or federal requirements.
11. In OP-REQ1 you have indicated site has units subject to MACT FFFF. Is this only a sitewide requirement? Please confirm there are no units subject to MACT FFFF. If that is not the case, please submit applicable forms.

Appreciate your itemized response by Friday, July 19, 2024, or earlier.

Thanks,
Vasant

From: Conor Braman <cbraman@slrconsulting.com>

Sent: Monday, May 20, 2024 10:26 AM

To: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>; LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

Vasant

Good morning. In response to your information requests we have the following:

1. We have one PBR that was certified under an APD-cert, but it was technically not registered. This was for emissions from a cooling tower under 106.371. This is listed under SPVC-RXFUG
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2. We have added additional monitoring for those PBRs to document compliance with the PBR emission limits
3. For MACT HHHHHHHH the fugitive rules apply (including reference to UU), and they still have a compliance extension for wastewater requirements under this rule. No updates are needed.
4. Yes, there has been an update to the MNSR summary table and the updated MNSR table is attached.

Please let us know if you have any questions or need anything else.

Conor

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Senior Engineer - Air Quality

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From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>
Sent: May 02, 2024 10:41 AM
To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>
Cc: Conor Braman <cbraman@slrconsulting.com>
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Hi LeAnn,
Thx for your response. Conor – I will add you to the mailing list for this project.
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Sent: Thursday, May 2, 2024 10:26 AM
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Formosa Plastics Corporation, Texas
Phone: 361-987-7463 Mobile: 361-920-9401



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Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC 163

Austin, TX 78711

Ph: (512) 239-1341

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Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	WW Tank Control	Maximum TVP	Storage Vessel Description	AMEL ID No.	Guidepole	Reid Vapor Pressure	Control Device ID No.
T-D01	60KB-1	PTLQ-3	10K-							
T-D02	60KB-1	PTLQ-3	10K-							
T-D03	60KB-1	PTLQ-3	10K-							
T-D04	60KB-1	PTLQ-3	10K-							

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	O3409	RN100218973

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
T-D01	R5112-1	NO		VOC2	C1K-			
T-D02	R5112-1	NO		VOC2	C1K-			
T-D03	R5112-1	NO		VOC2	C1K-			
T-D04	R5112-1	NO		VOC2	C1K-			

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR**

[Table 1](#)

Date	Permit No.	Regulated Entity No.

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
	1	CT-01	OP-UA15	Cooling Tower No. 1		76305	PSDTX1058
	2	EG-03	OP-UA2	Diesel Engine For Standby Fire Water Pump		76305	PSDTX1058
	3	EG-04	OP-UA2	Diesel Engine For Standby Power		76305	PSDTX1058
	4	T-D03	OP-UA3	Diesel Storage Tank		76305	PSDTX1058
	5	T-D04	OP-UA3	Diesel Storage Tank		76305	PSDTX1058

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

Unit ID No.	Registration No.	PBR No.	Registration Date

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

Unit ID No.	PBR No.	Version No./Date

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

From: [Conor Braman](#)
To: [Vasant Chaphekar](#); [LeAnn M. Usoff/FTEHSF](#)
Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant
Date: Monday, May 20, 2024 10:31:45 AM
Attachments: [image001.png](#)
[image054449.png](#)
[image923993.png](#)
[MNSR Table.docx](#)
[App A.5 PBR SUP.pdf](#)

Vasant

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(he/him/his)

Senior Engineer - Air Quality

M 512-417-7010

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Sent: May 02, 2024 10:41 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Cc: Conor Braman <cbraman@slrconsulting.com>

Subject: RE: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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Phone: 361-987-7463 Mobile: 361-920-9401



From: Vasant Chaphekar <vasant.chaphekar@tceq.texas.gov>

Sent: Thursday, May 2, 2024 10:07 AM

To: LeAnn M. Usoff/FTEHSF <LeAnnU@ftpc.fpcusa.com>

Subject: Renewal application -- FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/Specialty PVC Plant

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- IT/Management Center

Good morning Ms. Usoff,

Above referenced application for renewal of your Title V permit (FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant) has been assigned to me. Please address all correspondence pertaining to this permit application, including e-mails and updates, to me at the address below, and use the Permit Project reference numbers shown above in the subject line to facilitate tracking. Recommend that all parties on this distribution list use (reply to) the same 'thread' of e-mail rather than create a new one so that at the end of the project we have a complete documentation of all project related e-mails. Any project related email communication sent to me without the subject header "FOP O3409/Project 36586 Formosa Plastics Corporation, Texas/ Specialty PVC Plant" may result in delays.

To facilitate timely communication, I would appreciate if you would acknowledge receipt of all e-mail's, especially if any action is required. If additional or missing information is required, you will typically be requested to submit it by a 'due date' (that is determined by me based on the amount and complexity of info requested, time allocated to complete this project, and my project loading). If you have any questions or concerns regarding the due date, please contact me asap.

As an initial request, please provide the following info as soon as practical:

1. In OP-PBR SUP, Table A appears to be blank, indicating there are no registered PBRs in this application area. However, site (RN100218973) includes registered PBRs 75985 (PBR 106.371), 85100 (106.263), etc. Please check all PBRs, including registered PBRs, claimed but registered, claimed for insignificant sources, etc. and revise OP-PBR SUP and OP-REQ1 form (page 88) as needed.
2. In OP-PBR SUP, Table D appears to lack sufficient details to demonstrate compliance with applicable PBR emission limits. An APD cert document was filed with TCEQ (NSR 76305/project 335162). Is this document relevant for demonstration of compliance for compliance with applicable emission limits for registered PBRs?
3. Current FOP includes manually entered citations for units subject to MACT 7H and UU. Please advise if there are any changes to these applicable requirements.
4. Current FOP includes a major NSR summary table. Has issuance of revised NSR permit 76305 resulted in changes to the table?

Please be advised that all federal operating permit (Title V) correspondence from TCEQ, including final actions, for this project will be sent via e-mail.

Application updates must be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1. This form will be requested at a later date.

If you choose to submit your application updates through STEERS, please notify me when these updates have been submitted.

I plan to conduct an in-depth technical review of your application and may contact you again to request additional information. Please contact me if you have any questions regarding the project schedule, or any other details regarding your application or permit. I look forward to working with you on this project.

Sincerely,

Vasant Chaphekar, P.E.

Technical Specialist, Air Permits Division
Texas Commission on Environmental Quality

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Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**			
I-01 and I-02	Incinerator Scrubbers (The TPY rate is for both scrubber stacks combined. The lb/hr rate is for each individual EPN)	VOC	0.54	2.39	11, 12, 13, 14, 15, 16, 17, 24, 40, 45	11, 12, 13, 14, 15, 16, 17, 24, 32, 37, 39, 40, 45	14, 17, 24, 32
		NO _x	14.19	62.15			
		CO	2.00	8.75			
		PM	0.02	0.09			
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
		SO ₂	0.01	0.01			
		HCl	0.26	1.14			
		Cl ₂	0.41	2.22			
		VCM	0.49	2.15			
		VAM	0.03	0.12			
		NH ₃	0.12	0.53			
DD-B08	Train 1A Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B08	Train 1A Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			
		VAM	189.06	50.40			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
DD-B10	Train 1B Dryer Combustion Emissions	VOC	0.28	1.23	24, 34	24, 32, 34,37	24, 32
		NO _x	2.61	11.43			
		CO	7.83	34.28			
		PM	3.59	11.02			
		PM ₁₀	0.54	1.65			
		PM _{2.5}	0.54	1.65			
		SO ₂	0.04	0.17			
DD-B10	Train 1B Dryer	VOC	239.25	103.25	7, 9, 24, 34	7, 9, 24, 32, 34, 37	24, 32, 35
		VCM	37.86	49.10			
		VAM	189.06	50.40			
		Ethanol	12.33	3.75			
		NH ₃	58.55	154.58			
BD-B04	Train 2 Dryer Combustion Emissions	VOC	0.12	0.52	24, 33, 34	24, 32, 33, 34,37	24, 32
		NO _x	1.11	4.86			
		CO	3.33	14.59			
		PM	2.67	8.18			
		PM ₁₀	0.27	0.82			
		PM _{2.5}	0.27	0.82			
		SO ₂	0.02	0.07			
BD-B04	Train 2 Dryer	VOC	28.41	65.66	7, 9, 24, 33, 34	7, 9, 24, 32, 33, 34, 37	24, 32, 35
		VCM	11.08	19.97			
		VAM	17.33	45.69			

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EG-01	Diesel Engine for Standby Power	VOC	19.44	0.51	18	18, 32, 37	32
		NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
EG-02	Diesel Engine for Standby Power	VOC	19.44	0.51	18	18, 32, 37	32
		NO _x	19.44	0.51			
		CO	10.63	0.28			
		PM	0.61	0.02			
		PM ₁₀	0.61	0.02			
		PM _{2.5}	0.61	0.02			
		SO ₂	0.02	0.01			
T-03	Aqua Ammonia Storage Tank	NH ₃	3.19	0.14		32, 37	32
FUG-01	Process Area Piping Component Fugitives (5)	VOC	0.60	2.63	21, 25, 26, 27, 28, 29	21, 25, 26, 27, 28, 29, 32, 37	25, 29, 32
		VCM	0.57	2.48			
		VAM	0.04	0.15			
		NH ₃	0.03	0.12			
TF-01	Tank Farm Piping Component Fugitives (5)	VOC	0.07	0.29	21, 25, 26, 27, 29	21, 25, 26, 27, 29, 32, 37	21, 25, 29, 32
		VCM	0.05	0.23			
		VAM	0.01	0.06			
CT-01		VOC	1.25	5.48	19	19, 32, 37	32

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	Cooling Tower No. 1	VCM	1.19	5.21			
		VAM	0.06	0.27			
		Chlorine Compounds	< 0.01	< 0.01			
		PM	1.63	4.55			
		PM ₁₀	0.33	1.65			
		PM _{2.5}	< 0.01	0.01			
LPV-01	Low Pressure Vent – Trains 1 and 2 Reactor Opening Losses (6)	VOC	13.05	4.76	33	8, 32, 33, 37, 40	32
		VCM	13.05	4.76			
LPV-03	Low Pressure Vent – Trains 1 and 2 Downstream Losses	VOC	2.68	3.65	33	32, 33, 37	32
		VCM	2.68	3.65			
LPV-04	Low Pressure Vent – Trains 1 and 2 Additive Building	VOC	5.95	3.00	33	32, 33, 37	32
		NH ₃	7.88	6.58			
LPV-05	Low Pressure Vent – Trains 1 and 2 Slurry Treatment Area	VOC	2.70	1.00	33	32, 33, 37	32
		VCM	0.27	0.10			
CD-B02		PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			

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	CoPolymer Check Weigh Bin No. 1	PM _{2.5}	0.01	0.01			
CD-B18	CoPolymer Resin Bagger	PM	0.50	1.68	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.50	1.68			
		PM _{2.5}	0.02	0.08			
CD-B27	CoPolymer Check Weigh Bin No. 2	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
CD-B28	CoPolymer Loading Baghouse	PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
CD-B29	CoPolymer Nuisance Dust Pickup	PM	0.04	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.04	0.12			
		PM _{2.5}	0.01	0.01			
BD-B06	Blending Resin Check Weigh Bin No. 1	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B07	Blending Resin Nuisance Dust Pickup	PM	0.54	1.81	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.54	1.81			
		PM _{2.5}	0.02	0.06			
BD-B10	Train 2 Hopper Vent	PM	0.02	0.02	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.02			
		PM _{2.5}	0.01	0.01			
BD-B19		PM	0.62	0.90	23, 30, 31	23, 30, 31, 32, 37	31, 32

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	Blending Resin Bagger	PM ₁₀	0.62	0.90			
		PM _{2.5}	0.02	0.03			
BD-B28	Blending Resin Check Weigh Bin No. 2	PM	0.02	0.07	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.02	0.07			
		PM _{2.5}	0.01	0.01			
BD-B50	Blending Resin Check Weigh Bin No. 3	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
BD-B51	Blending Resin Check Weigh Bin No. 4	PM	0.03	0.12	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.12			
		PM _{2.5}	0.01	0.01			
BD-B52	Blending Resin Loading Baghouse	PM	0.03	0.11	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.01	0.01			
BD-B53	Blending Resin Separator	PM	0.08	0.27	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.08	0.27			
		PM _{2.5}	0.01	0.01			
BD-B54	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
BD-B55	Blending Resin Separator	PM	0.29	0.88	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.29	0.88			
		PM _{2.5}	0.01	0.03			
DD-B12		PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

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	Grinder No. 1A	PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B13	Grinder No. 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B14	Grinder No. 1C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B15	Grinder No. 2A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B16	Grinder No. 2B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
BB-B17	Grinder No. 2C	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B20	Train 1 Bagger Station No. 1	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B24	Bagger Station	PM	0.75	2.52	23, 30, 31	23, 30, 31, 32, 37	31, 32
		PM ₁₀	0.75	2.52			
		PM _{2.5}	0.04	0.13			
DD-B31		PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

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	Grinder No. 1D	PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B32	Grinder No. 1E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B33	Grinder No. 1F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B34	Grinder No. 1G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B35	Grinder No. 2D	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B36	Grinder No. 2E	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B37	Grinder No. 2F	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B38	Grinder No. 2G	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B39	Separator 1A	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32

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		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B40	Separator 1B	PM	0.34	1.14	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.34	1.14			
		PM _{2.5}	0.02	0.06			
DD-B41	Separator 2A	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B42	Separator 2B	PM	0.03	0.10	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.10			
		PM _{2.5}	0.01	0.01			
DD-B43	Feed Hopper 1A	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B44	Feed Hopper 1B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B45	Underground Product 1A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B46	Underground Product 1B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B47		PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32

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	Feed Hopper 2A	PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B48	Feed Hopper 2B	PM	0.03	0.09	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.03	0.09			
		PM _{2.5}	0.01	0.01			
DD-B49	Underground Product 2A	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
DD-B50	Underground Product 2B	PM	0.09	0.29	30, 31	30, 31, 32, 37	31, 32
		PM ₁₀	0.09	0.29			
		PM _{2.5}	0.01	0.01			
S-01	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-02	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-03	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-04	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-05		PM	0.12	0.42		32, 37	32

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	CoPolymer Silo	PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-09	CoPolymer Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-10	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-11	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-12	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-13	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-14	Blending Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-17	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-18		PM	0.12	0.42		32, 37	32

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	Dispersion Resin Silo	PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-19	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-20	Dispersion Resin Silo	PM	0.12	0.42		32, 37	32
		PM ₁₀	0.12	0.42			
		PM _{2.5}	0.01	0.02			
S-25	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
S-26	Dispersion Resin Silo	PM	0.11	0.36		32, 37	32
		PM ₁₀	0.11	0.36			
		PM _{2.5}	0.01	0.02			
T-D01	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
T-D02	Diesel Storage Tank	VOC	0.08	0.01	22	22, 32	32
WWT-2	Wastewater Treatment Plant	VOC	5.00	18.26	20	20, 32, 37	32
		VCM	0.44	1.60			
		VAM	2.57	9.36			
		NH ₃	2.30	8.40			
SPVC-MNT	Emissions To Atmosphere	VOC	20.54	2.31	40, 41, 42	32, 37, 39, 40, 41, 46	32
		PM	0.01	0.01			
		PM ₁₀	0.01	0.01			

Permit Number: 76305 and PSDTX1058					Issuance Date: June 12, 2019		
		PM _{2.5}	0.01	0.01			
		NH ₃	1.70	0.01			

- (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 - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - HCl - hydrogen chloride
 - Chlorine compounds - hypochlorous acid and hydrogen chloride
 - Cl₂ - chlorine
 - VCM - vinyl chloride monomer
 - VAM - vinyl acetate monomer
 - NH₃ - ammonia
- (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) Opening of reactors after every batch for cleaning prior to charging for the next batch.
- (7) Includes MSS emissions.

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

Unit ID No.	Registration No.	PBR No.	Registration Date

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

Unit ID No.	PBR No.	Version No./Date

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

Steven Piper

From: eNotice TCEQ
Sent: Thursday, April 25, 2024 11:42 AM
To: Lois.Kolkhorst@senate.texas.gov; JM.lozano@house.texas.gov
Subject: TCEQ Notice - Permit Number O3409
Attachments: TCEQ Notice - O3409_36586.pdf

This email is being sent to electronically transmit an official document issued by the Office of Air of the Texas Commission on Environmental Quality.

This email is being sent to you because either (a) you filed a document with the Office of the Chief Clerk that made you part of the official mailing list for the above referenced matter, or (b) notice to you is legally required. As authorized by Texas Water Code 5.128, this electronic transmittal is replacing the previous practice of hard copy distribution. Amendments to Texas Government Code 552.137 prompted a change to the agency's privacy policy regarding confidentiality of certain email addresses. The revised privacy policy can be viewed at http://www.tceq.state.tx.us/help/policies/electronic_info_policy.html.

Questions regarding this email may be submitted either by replying directly to this email or by calling Mr. Jesse Chacon, P.E. with the Air Permits Division at (512) 239-5759.

The attached document is provided in an Adobe Acrobat .pdf format. If you cannot display the attachment, you may need to visit the Adobe web site (<http://get.adobe.com/reader>) to download the free Adobe Acrobat Reader software.

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 25, 2024

THE HONORABLE LOIS KOLKHORST
TEXAS SENATE
PO BOX 12068
AUSTIN TX 78711-2068

Re: Accepted Federal Operating Permit Renewal Application
Project Number: 36586
Permit Number: O3409
Formosa Plastics Corporation, Texas
Specialty Pvc Plant
Point Comfort, Calhoun County
Regulated Entity Number: RN100218973
Customer Reference Number: CN600130017

Dear Senator Kolthorst:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.547222,28.688888&level=13>.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site. The FOP identifies and codifies air emission requirements (known as applicable requirements) that apply to the emission units at the site. The FOP does not authorize construction of emission units or emissions from those units. The New Source Review (NSR) permit is the mechanism for these authorizations.

The Honorable Lois Kolkhorst
Page 2
April 25, 2024

Re: Accepted Federal Operating Permit Renewal Application

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read 'Samuel Short', followed by a long horizontal line extending to the right.

Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 25, 2024

THE HONORABLE JOSE M LOZANO
TEXAS HOUSE OF REPRESENTATIVES
PO BOX 2910
AUSTIN TX 78768-2910

Re: Accepted Federal Operating Permit Renewal Application
Project Number: 36586
Permit Number: O3409
Formosa Plastics Corporation, Texas
Specialty Pvc Plant
Point Comfort, Calhoun County
Regulated Entity Number: RN100218973
Customer Reference Number: CN600130017

Dear Representative Lozano:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.547222,28.688888&level=13>.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site.

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel Short", followed by a long horizontal line.

Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

Title V Existing

3409

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	SPECIALTY PVC PLANT
County	CALHOUN
Latitude (N) (##.#####)	28.688888
Longitude (W) (-###.#####)	96.547222
Primary SIC Code	2821
Secondary SIC Code	
Primary NAICS Code	325110
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100218973
What is the name of the Regulated Entity (RE)?	FORMOSA POINT COMFORT PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	201 FORMOSA DR
City	POINT COMFORT
State	TX
ZIP	77978
County	CALHOUN
Latitude (N) (##.#####)	28.6888
Longitude (W) (-###.#####)	-96.5472
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL CHEMICAL MANUFACTURING PLANT

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN600130017
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Formosa Plastics Corporation, Texas
Texas SOS Filing Number	5107506
Federal Tax ID	222355464
State Franchise Tax ID	12223554648
State Sales Tax ID	
Local Tax ID	
DUNS Number	106238165
Number of Employees	501+
Independently Owned and Operated?	Yes

Responsible Official Contact

Person TCEQ should contact for questions about this application:

Organization Name	FORMOSA PLASTICS CORPORATION TEXAS
Prefix	MR
First	KEN
Middle	
Last	MOUNGER
Suffix	
Credentials	
Title	EXECUTIVE VICE PRESIDENT
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	9 PEACH TREE HILL RD
Routing (such as Mail Code, Dept., or Attn:)	
City	LIVINGSTON
State	NJ
ZIP	07039
Phone (###-###-####)	9737167205
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9739948005

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application

Select existing DAR contact or enter a new contact.

Organization Name	FORMOSA PLASTICS CORPORATION TEXAS
Prefix	MR
First	MIKE
Middle	
Last	RIVET
Suffix	
Credentials	
Title	EXECUTIVE DIRECTOR SITE MANAGER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 700
Routing (such as Mail Code, Dept., or Attn:)	
City	POINT COMFORT
State	TX
Zip	77978
Phone (###-###-####)	3619877000

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

mikerivet@ftpc.fpcusa.com

Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.

New Contact

Organization Name

Formosa Plastics Corporation Texas

Prefix

MS

First

LeAnn

Middle

Last

Usoff

Suffix

Credentials

Title

Air Permitting Assistant Manager

Enter new address or copy one from list:

Mailing Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

PO BOX 700

Routing (such as Mail Code, Dept., or Attn:)

City

POINT COMFORT

State

TX

ZIP

77978

Phone (###-###-####)

3619209401

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

LeAnnU@ftpc.fpcusa.com

Title V General Information - Existing

1) Permit Type:

SOP

2) Permit Latitude Coordinate:

28 Deg 41 Min 20 Sec

3) Permit Longitude Coordinate:

96 Deg 32 Min 50 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?

Renewal

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?

Duly Authorized Representative

6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule

No

requirements?

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name	OP_2_SPVC+Title+V+Permit+O3409+Renewal+and+Revision+Application+-+Final+Draft+-+04.15.2024.signed(2).pdf
Hash	4217BFBF7CDD1869932117A4A9F17BADFB5CCA6E79FE433CF5949D21569BD36A
MIME-Type	application/pdf

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

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 Duly Authorized Representative 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 Mike Rivet, the owner of the STEERS account ER093335.
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 3409.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Mike Rivet OWNER OPERATOR

Account Number:	ER093335
Signature IP Address:	24.116.223.222
Signature Date:	2024-04-24
Signature Hash:	1D96686854B12E0F5FA241401E07955B06BD2257800F82BF7A872089D866131A
Form Hash Code at time of Signature:	5D4EAF93BB7280578314BFBFA687A66141CCB2C6EE5106230707783213CC6E

Submission

Reference Number:	The application reference number is 649834
Submitted by:	The application was submitted by ER093335/Mike Rivet
Submitted Timestamp:	The application was submitted on 2024-04-24 at 16:56:37 CDT
Submitted From:	The application was submitted from IP address 172.108.196.196
Confirmation Number:	The confirmation number is 536702
Steers Version:	The STEERS version is 6.73
Permit Number:	The permit number is 3409

Additional Information

Application Creator: This account was created by Leann Usoff



Formosa Plastics®

Formosa Plastics Corporation, Texas
201 Formosa Drive • P.O. Box 700
Point Comfort, TX 77978
Telephone: (361) 987-7000

April 26, 2024

Electronic Delivery via STEERS
Texas Commission on Environmental Quality
Air Permits Initial Review Team (APIRT) (MC-161)
P. O. Box 13087
Austin, Texas 78711-3087

RE: Formosa Plastics Corporation, Texas
TCEQ Air Quality Account Number: CB-0038-Q
Customer Reference Number: CN600130017
Regulated Entity Number: RN100218973
Specialty PVC Plant Title V Permit Number O3409 Renewal and Significant Revision Application

To Whom It May Concern:

Pursuant to 30 TAC §122.241, Formosa Plastics Corporation, Texas (FPC TX) hereby submits a permit renewal and significant revision application for the Specialty PVC Plant Title V Permit Number O3409 at the Calhoun County, Point Comfort complex. This significant permit revision is to add annual visible emissions monitoring for the cooling tower

Please find attached the renewal application and an OP-CRO1 form certifying these changes.

Should you have any questions, please contact Mrs. LeAnn Usolf at LeAnnU@ftpc.fpcusa.com.

Sincerely,

Mike Rivet

Digitally signed by
Mike Rivet
Date: 2024.04.24
10:45:17 -05'00'

Mike Rivet
Executive Director/Site Manager
Formosa Plastics Corporation, Texas

Enclosures

CC: Electronic Delivery: via STEERS
Air Program Manager, Region 14
Texas Commission on Environmental Quality
NRC Building, Ste. 1200
6300 Ocean Drive, Unit 5839
Corpus Christi, Texas 78412-5839
(Copy of the Application)

Electronic Delivery: R6AirPermitsTX@epa.gov
EPA Region VI Office



Formosa Plastics Corporation Texas Specialty PVC Plant

Title V Operating Permit O3409 Renewal Application

Prepared for:

Formosa Plastics Corporation Texas

Prepared by:

SLR International Corporation

SLR Project No.: 120.21134.00001

April 2024

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Appendices

Appendix A	General and Administrative Forms
Appendix B	Area Wide Applicable Requirements Form
Appendix C	Monitoring Forms
Appendix D	Unit Attributes Forms
Appendix E	Alternative Method of Compliance



1.0 Introduction

Formosa Plastics Corporation Texas owns and operates the Specialty PVC Plant in Point Comfort, Calhoun County under the authorization of Title V Site Operating Permit (SOP) Number O3409. The Specialty PVC Plant consists of two production trains; Train 1 and Train 2, a monomer recovery system, and wastewater treatment. Train 1 produces dispersion resin and Train 2 produces blending resin and copolymer resin. The monomer recovery system recovers monomers from both trains to be reintroduced to the production trains. The wastewater treatment plant treats process wastewater and sends it to the Combined Water Treatment Plant.

Formosa submitted its previous SOP renewal application on July 5, 2017 and received its effective SOP from the Texas Commission on Environmental Quality (TCEQ) on November 21, 2019. Formosa is submitting this Title V SOP renewal and significant revision application to request permit renewal prior to expiration. The significant revision is to add case by case monitoring to the cooling tower.

This application is being submitted according to the timeline required for SOP renewals specified in 30 TAC §122.133(4) and contains the following updated information required by the SOP application procedures specified in 30 TAC §122.132:

- Site location map and plot plan with emission units designated;
- Description of the processes and associated process flow diagrams;
- General and administrative forms OP-CRO1, OP-1, OP-2, OP-SUMR, OP-PBRSUP, and OP-ACPS (Appendix A);
- Area-wide applicable requirements forms OP-REQ1 (Appendix B);
- Monitoring Forms (Appendix C);
- Unit attribute forms OP-UA1, OP-UA2, OP-UA3, OP-UA12, OP-UA13, and OP-UA15(Appendix D); and
- Alternate Method of Compliance Correspondence (Appendix E).

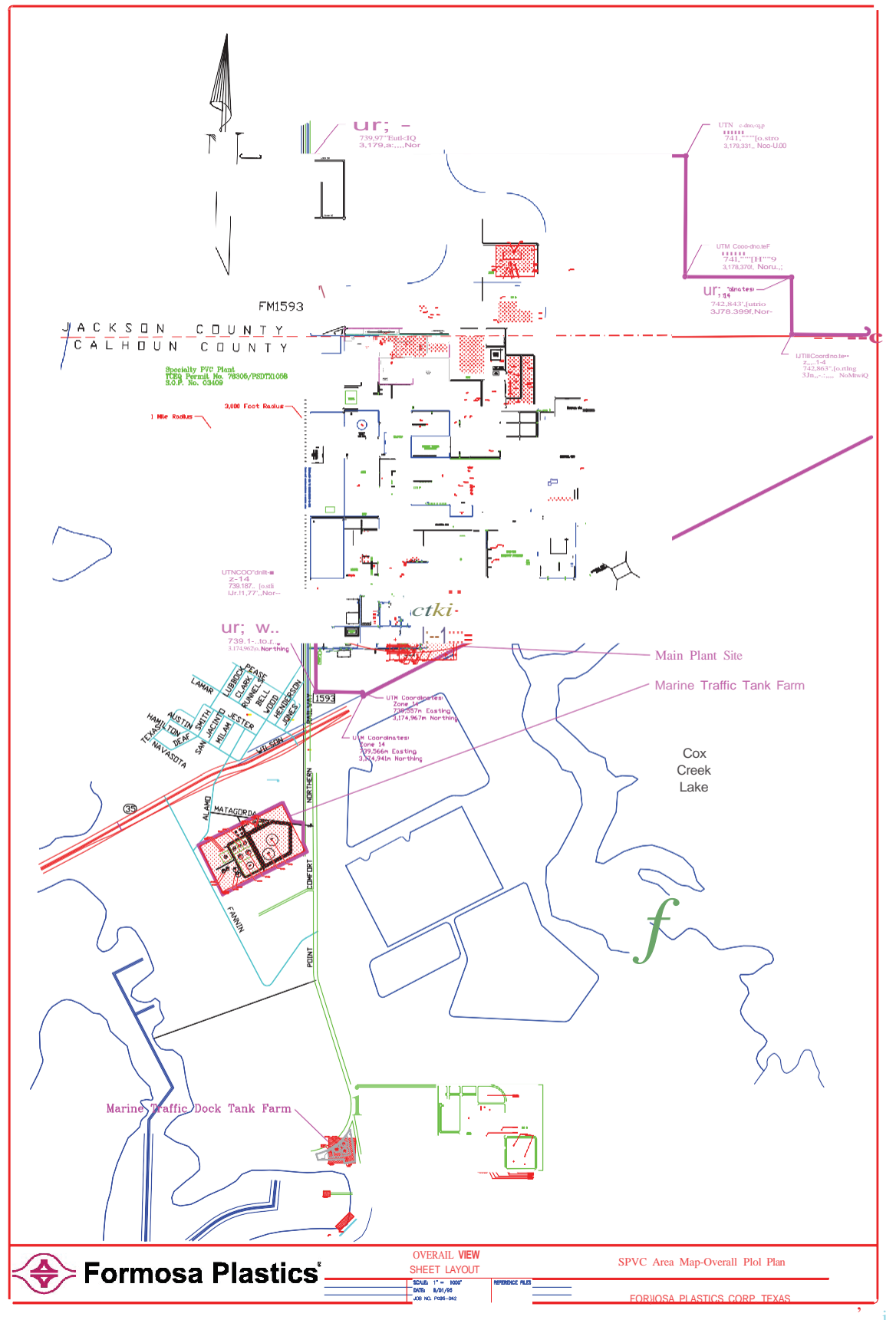
Sections 2.0, 3.0, and 4.0 of this application include site descriptive information such as the site location map, plot plan, and process information. Section 5.0 and the related appendices include the necessary TCEQ application forms.



2.0 Site Map

The Formosa Point Comfort Specialty PVC Plant is located at 201 Formosa Drive in Point Comfort, Calhoun County. The area map depicting the complex location with respect to other geographical sites within 3,000-foot and one-mile radii is included in Figure 2-1.

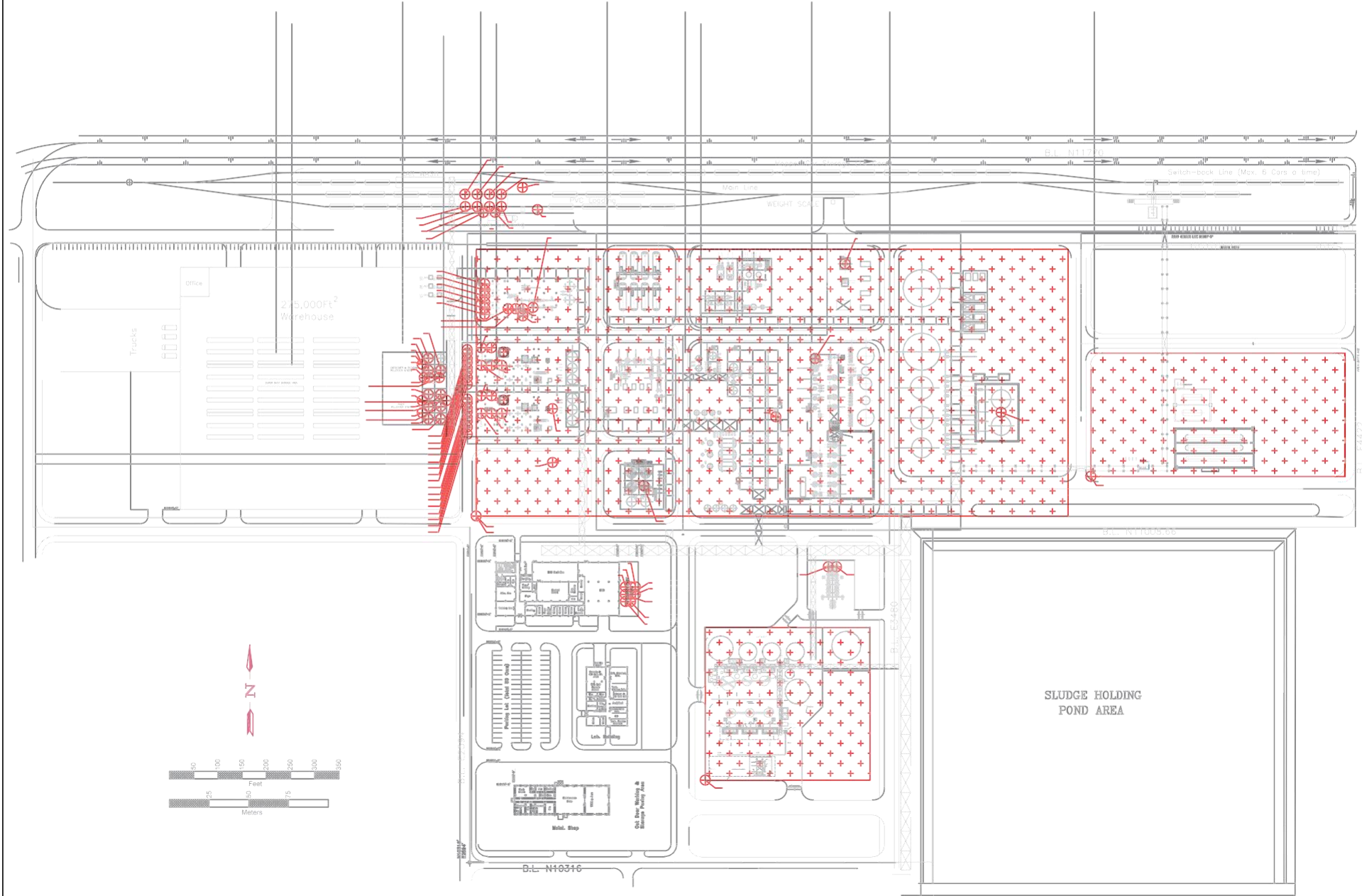




3.0 Plot Plan

This section includes Figure 3-1 which show the facility's boundary and site property lines in addition to the location of buildings, equipment, and process areas. The site plot plan includes a true north arrow, plant benchmarks, and a scale.





4.0 Process Description and Flow Diagrams

The following narrative describes the flow of materials through the Specialty PVC Plant as shown on the process flow diagrams (Figures 4-1 to 4-6) included at the end of this section.

In the Specialty Polyvinyl Chloride (PVC) Plant, Specialty PVC is a batch process and is produced in two different trains: Train 1 - Dispersion Resin and Train 2 - Blending Resin and Copolymer Resin. Train 1 has two identical lines for drying, screening, storage, and bagging of the product resin. Both trains share common utilities, monomer supply, monomer recovery system, wastewater stripping system, waste gas incineration/scrubber system and wastewater treatment facility.

4.1 Train 1: Dispersion Resin

Water (301), VCM (302), and additives (303) are charged to the Seed Reactors. The seed (308), water (305), vinyl chloride monomer (VCM) (307), vinyl acetate monomer (VAM) (306), and additives (309) are charged to the Polymerization Reactors. In the Reactors, the seed, VAM, VCM, and additives combine to make polyvinyl chloride (PVC) polymer in aqueous dispersion.

After polymerization, the aqueous dispersion (310) is transferred to a pressurized Stripping Vessel. Steam (313) is added to the Stripping Vessel to remove unreacted monomer. The unreacted monomers (312) from the Stripping Vessel, Seed Reactor, and Polymerization Reactors are sent to the Monomer Recovery system. At this point, the process is separated into two identical downstream lines (A and B). For simplicity, only line A is described here.

The aqueous dispersion is sent to a Latex Treatment System. Small quantities of PVC (320A) from the Latex Treatment System are screened. The remaining aqueous dispersion is sent to the Latex Storage System. The aqueous dispersion is pumped into a Dryer to remove the moisture from the wet PVC. After drying, PVC particles are separated using bag filters and screens. Small quantities of PVC product (322A) from the screen are packaged and sold. The PVC resin is ground to the final particle distribution utilizing grinders and is captured in bag filters. The Product PVC resin (321A) is conveyed to silos for storage. Dispersion resin is typically bagged or supersacked.

4.2 Train 2: Blending Resin and Copolymer Resin

Within Train 2, only one of these products of Blending Resin and Copolymer Resin will be produced at a time.

Water (201), and additives (204) are added to a Premix Vessel. Water (201), VAM (202), VCM (203) and additives (204) are added to Polymerization Reactors. The contents of the Premix Vessel are transferred to the Polymerization Reactors. In the Reactors, the VAM, VCM, and additives combine to make a polyvinyl chloride (PVC) polymer in an aqueous slurry.

After polymerization, the aqueous PVC slurry (205) produced in the Reactors is transferred to a pressurized Degassing/Stripping Vessel. Slurry is either stripped in the Degassing/Stripping Vessel then sent to the Slurry Storage Tank or degassed in the Degassing/Stripping Vessel then sent to the Stripper Feed Vessel and from there is fed to the Stripping Column. Steam



(216) is used to remove unreacted monomer from the PVC slurry in the Stripping Column. Overheads from the Degassing/Stripping Vessel, Stripper Feed Vessel, Polymerization Reactors and Stripping Column (unreacted monomer (214)) are combined (215) and drawn into the Monomer Recovery System. The stripped slurry from the Stripping Column Bottoms is sent through the Slurry Treatment System (208) to the Slurry Storage Tank.

A Centrifuge dewateres and splits the slurry (209) from the Slurry Storage Tank into a wet PVC cake (210), which is fed to the Dryer, and an aqueous effluent (211), which flows to the Wastewater Treatment Plant, WWT-2.

Moisture is removed from the PVC wet cake using a Dryer. All combustion products from the Dryer pass through the Cyclone Separator and exit out the Bag Filter vent (EPN-BD-B04). The dried PVC (212) is coarse screened and pneumatically conveyed to either the Blending Resin Check Weigh Bins or the Copolymer Resin Check Weigh Bins. The coarse screenings are packaged and sold separately. From the Check Weigh Bins, the PVC resins are pneumatically conveyed to silos. The Blending Resin PVC product (213) or the Copolymer Resin PVC product (111) can discharge to various packaging venues, i.e. railcar, bulk trucks or to the packaging line for bagging (112).

4.3 Ventilation Systems

There are four low pressure ventilation systems (EPNs LPV-01, LPV-03, LPV-04, and LPV-05) that vent to atmosphere. These ventilation systems are used to reduce personnel exposure from the reactor and slurry tank areas. The reactor opening losses from the Train 1 and Train 2 reactors, ventilation stripping and recovery equipment and vessel maintenance opening losses, VCM contaminated water handling equipment and vessel opening losses exhaust through LPV-01. LPV-03 is used to exhaust the downstream areas of Trains 1 and 2. LPV-04 is used to ventilate solution make-up tanks where aqueous ammonia (NH_4OH) is used and the NH_4OH containment vessel. LPV-05 is used to ventilate Trains 1 and 2 post-stripped treated slurry process equipment, stripping, recovery, VCM and VAM contaminated water handling equipment, and other various vessel opening losses.

4.4 Monomer Recovery System

The monomer recovery system is utilized in the collection, capture, processing, and storage of recovered vinyl chloride monomer and vinyl acetate monomers from both trains. Overheads from the Reactors (both trains), Degassing/ Stripping Vessels and Stripping Column are fed to the Monomer Recovery System. VCM is recovered, stored, and returned (117) to reactors in both trains for reuse in the process. Recovered VAM is also stored and returned (115) to reactors for reuse in the process. VCM from the VAM Recovery system is combined with the overheads from the Recovered VAM Tank and Wastewater Stripper Vessels and sent to the VCM Recovery system. The vent from the VCM Recovery system (116) is sent to the Incinerator.

The Specialty PVC Plant has two incinerators, one on-line and one on standby. The Incinerator provides a 1.5-second residence time with an operating temperature of 1,750 degrees Fahrenheit and is designed to remove 99.95% of the VOCs. The exhaust gas from the Incinerator contains hydrogen chloride and chlorine as a result of the combustion of chlorinated hydrocarbons contained in the waste gas to the incinerator. The exhaust gets from the Incinerator is routed to an HCl Absorber where at least 90 wt% HCl is captured from the exhaust gas; the absorber exhaust is then routed to the caustic (120) Scrubber to capture the last traces



of chlorine and hydrogen chloride. The 10 wt% aqueous HCl acid waste stream (off the absorber) is routed to a closed storage vessel system where it is routed to the Wastewater Treatment Plant (WWT-2); the vessel vent gas is routed back to the caustic scrubber. The emissions to atmosphere (123) from the incinerator and scrubber system occur from the scrubber.

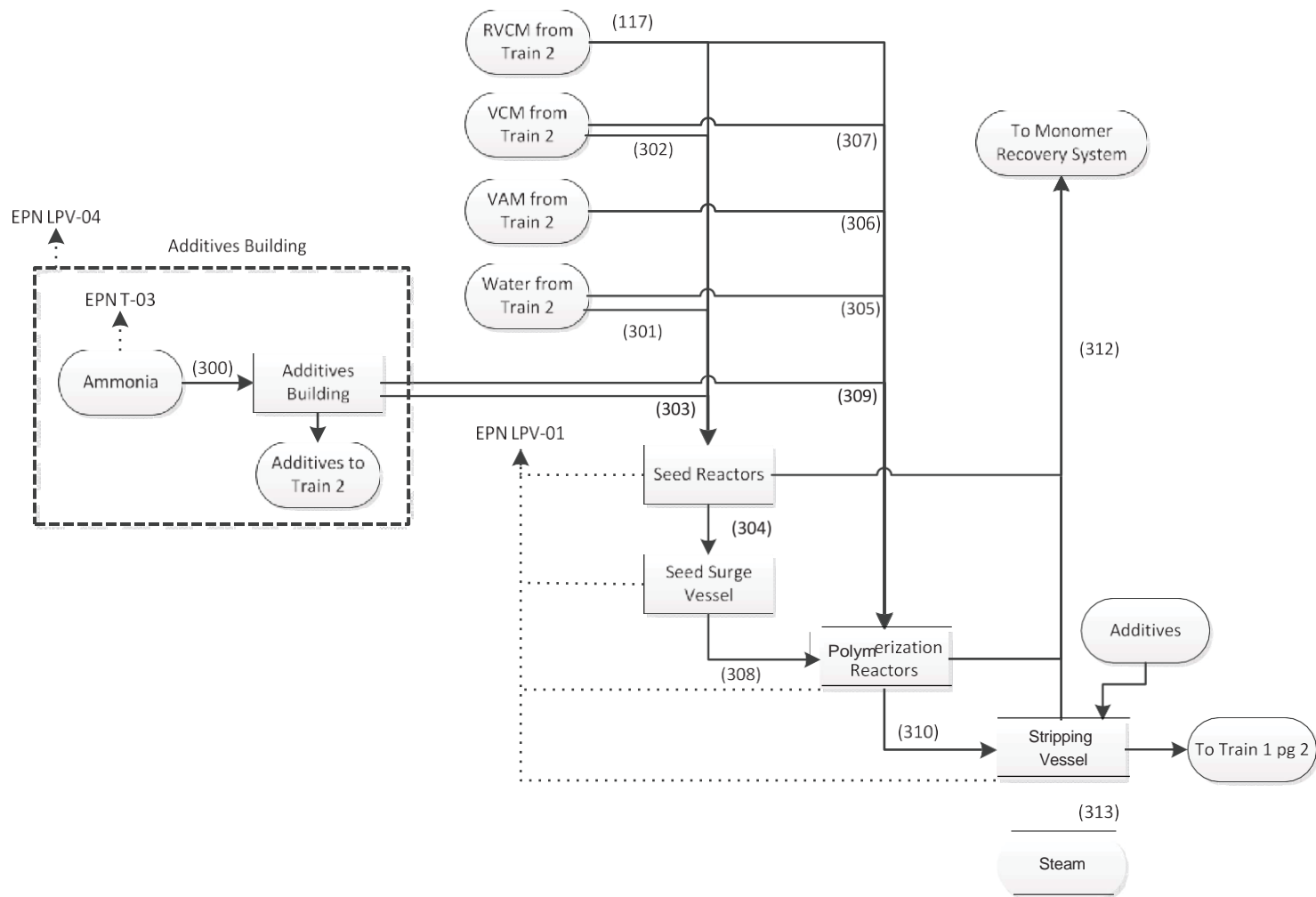
4.5 Wastewater Stripping System, WWT-1

In-process wastewater from VAM Recovery and VCM Recovery is collected in the Wastewater Stripper Vessels. The overheads from the Wastewater Stripper Vessels go to the VCM Recovery system. The wastewater is steam (130) stripped in the Wastewater Stripper vessels, and the overhead is sent to the Monomer Recovery System. Effluent water (131) is sent to the WWT-2.

4.6 Wastewater Stripping System, WWT-2

Aqueous effluent from the Train 1 Latex Treatment System (311A and 311B), the Train 2 Blending and Co-Polymer Resin Centrifuge (211), the Train 2 Wastewater Stripper (131), and from process area trenches are sent to WWT-2 for solids removal. Effluent is treated with settling aids and clarified. The clarifier solids are filtered to yield PVC wet cake. Separated PVC wet cake is sold as PVC product (402) or shipped off site to a landfill while clarified effluent is sent to the Combined Water Treatment Plant (CWTP). The CWTP is the wastewater treatment facility for the overall Point Comfort Chemical Complex.



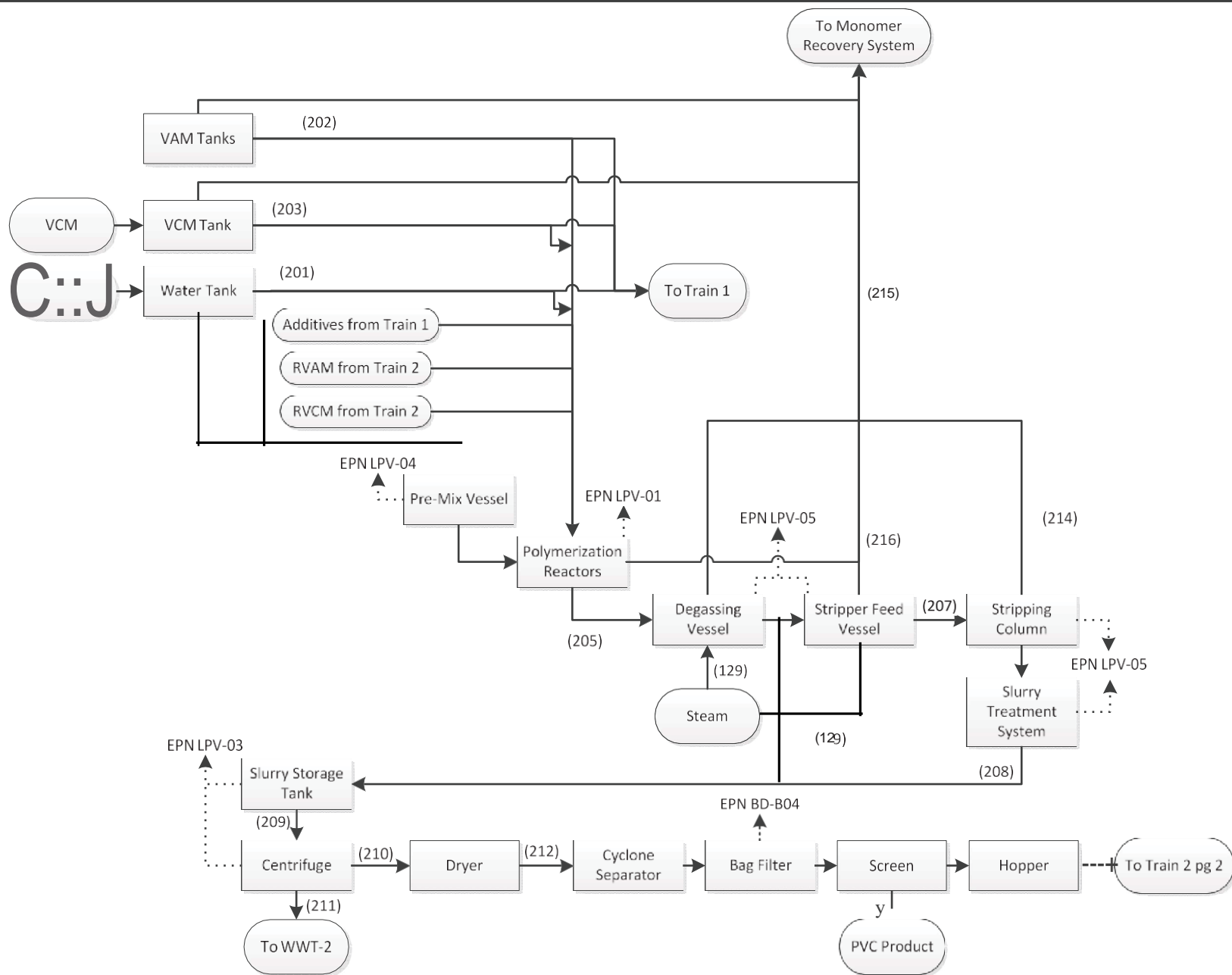


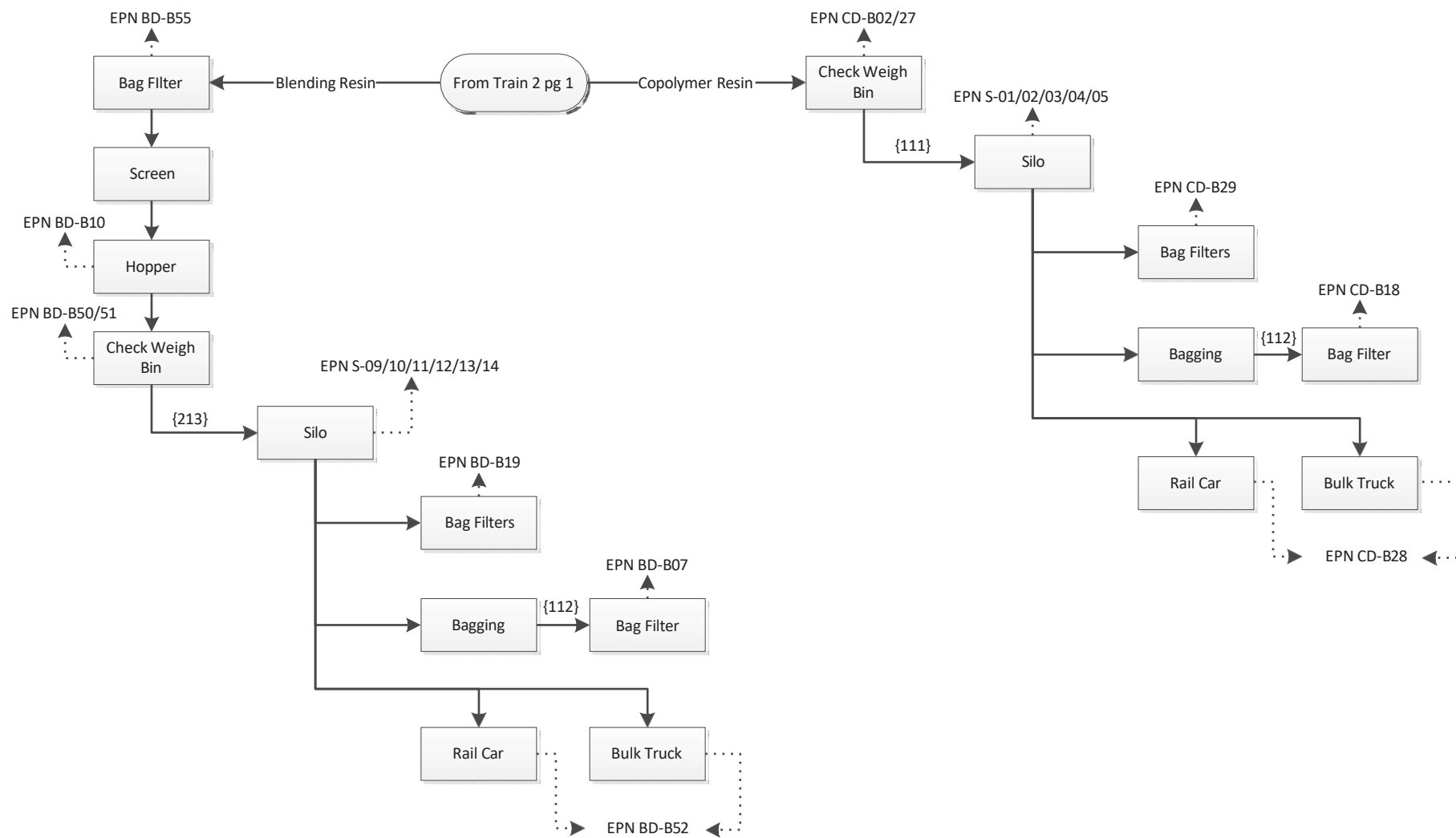
SLR Consulting

Figure 4-1
Train 1 pg 1
Specialty PVC Plant
Formosa Plastics Corporation, Texas
Point Comfort, Texas

Revised: 03/22/24

120.21134.00001



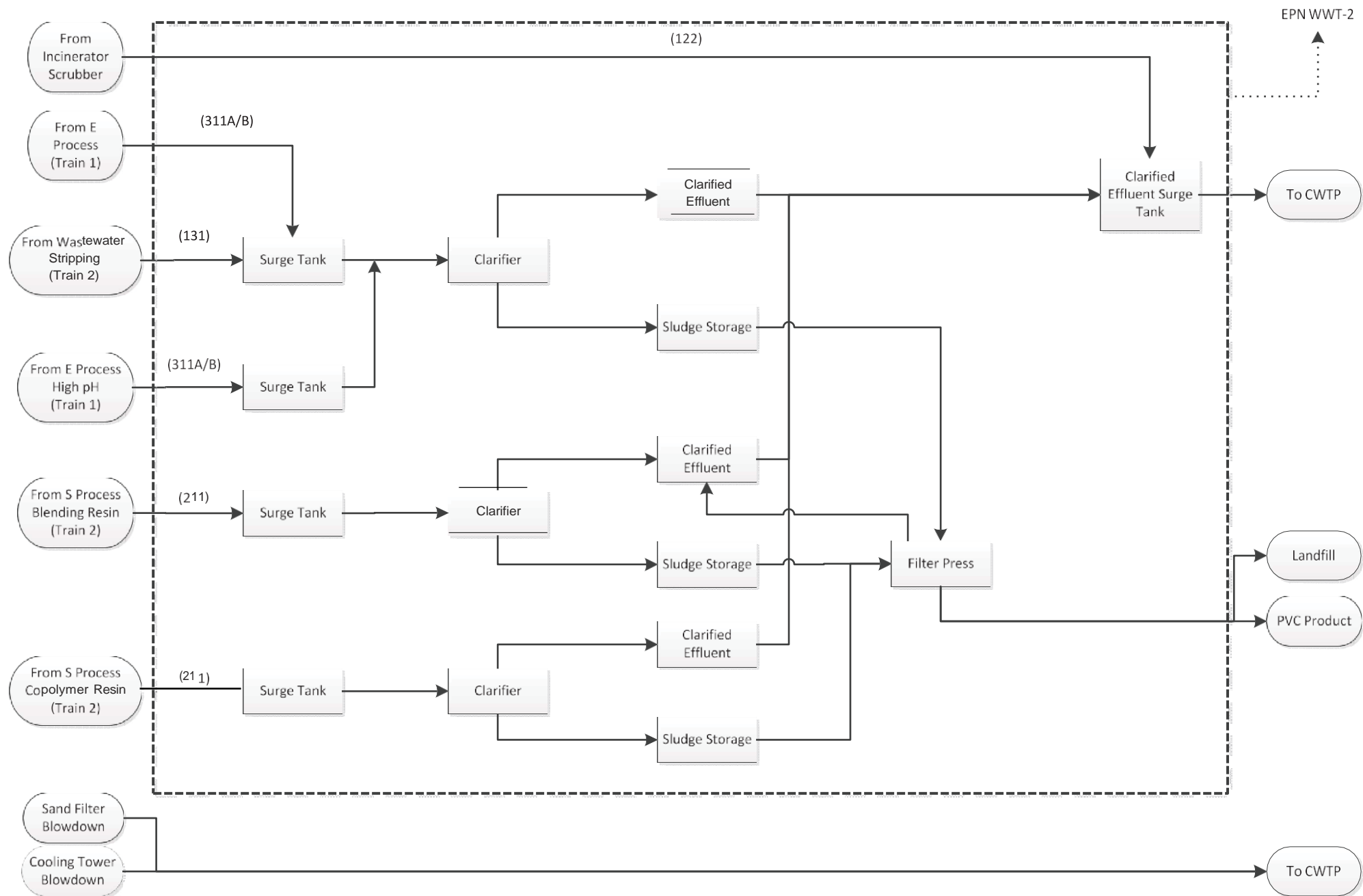


SLR Consulting

Revised: 3/22/24

120.21134.00001

Figure 4-4
Train 2 pg 2
Specialty PVC Plant
Formosa Plastics Corporation, Texas
Point Comfort, Texas

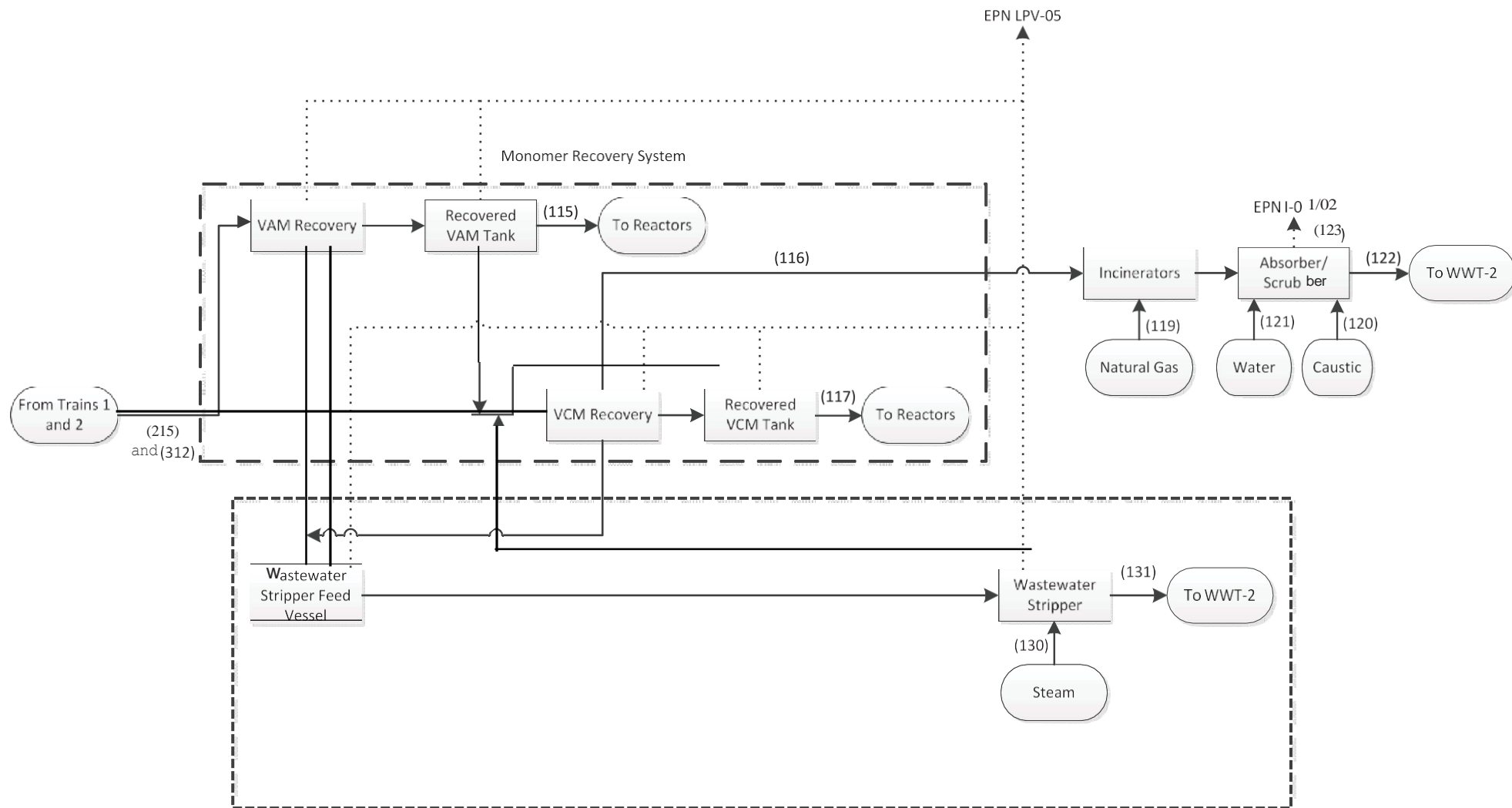


SLR Consulting

Figure 4-5
WWT-2
Specialty PVC Plant
Formosa Plastics Corporation, Texas
Point Comfort, Texas

Revised 3/22/24

120.21134.00001



SLR Consulting

Figure 4-6
Monomer Recovery System
Specialty PVC Plant
Formosa Plastics Corporation, Texas
Point Comfort, Texas

Revised: 3/22/24

120.21134.00001

5.0 General and Administrative Forms

Appendix A of this application includes the general and administrative forms and supporting information required by the SOP application renewal process, 30 TAC §122.132. These forms and other data include the following:

- OP-CRO1 (Certification by Responsible Official);
- OP-1 (Site Information Summary);
- OP-2 (Application for Permit Revision/Renewal);
- OP-PBRSUP (Supplemental PBR Form); and
- OP-ACPS (Application Compliance Plan and Schedule).

5.1 Applicability Determination Forms

The emission units at the Specialty PVC Plant are subject to site-wide applicable requirements as well as unit specific non-applicability determinations. A completed OP-REQ1 detailing these requirements is included in Appendix B.

5.2 Monitoring Updates

With this renewal Formosa is requesting annual visible emissions monitoring for the cooling tower (EPN CT-01) in the Specialty PVC Plant. An OP-MON form for this request is included in Appendix C.

5.3 Unit Attribute Forms

Appendix D includes the following unit attribute forms:

- OP-UA1 (Miscellaneous Unit Attributes);
- OP-UA2 (Stationary Reciprocating Internal Combustion Engine Attributes);
- OP-UA3 (Tank/Vessel Attributes);
- OP-UA12 (Fugitive Emission Unit Attributes);
- OP-UA13 (Cooling Tower Attributes); and
- OP-UA15 (Emission Point/Stationary Vent/ Distillation Operation/ Process Vents Unit Attributes).

5.4 Alternative Method of Compliance Memo

Appendix E includes the Alternative Method of Compliance Correspondence to establish Alternative Monitoring for all cooling towers at the Formosa Point Comfort Plant.



6.0 Closure

Title V Operating Permit O3409 Renewal Application

Prepared for:
Formosa Plastics Corporation Texas
Formosa Point Comfort Plant
201 Formosa Drive
Point Comfort, Texas 77978
CN600130017/RN100218973

This document has been prepared by SLR International Corporation (SLR). The material and data in this report were prepared under the supervision and direction of the undersigned.

Deever Bradley, P.E.
Senior Principal

Conor Braman
Senior Engineer





Appendix A General and Administrative Forms

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: 100218973	CN: 600130017	Account No.: CB-0038-Q
Permit No.: O3409	Project No.: TBD	
Area Name: Specialty PVC Plant	Company Name: Form	
II. Certification Type <i>(Please mark the appropriate box)</i>		
<input type="checkbox"/> Responsible Official	<input checked="" type="checkbox"/> Duly Authorized Representative	
III. Submittal Type <i>(Please mark the appropriate box) (Only one response can be accepted per form)</i>		
<input type="checkbox"/> SOP/TOP Initial Permit Application	<input type="checkbox"/> Update to Permit Application	
<input type="checkbox"/> GOP Initial Permit Application	<input checked="" type="checkbox"/> Permit Revision, Renewal, or Reopening	
<input type="checkbox"/> Other: _____		
IV. Certification of Truth		
<p>This certification does not extend to information which is designated by the TCEQ as information for reference only.</p> <p>I, <u>Mike Rivet</u> certify that I am the <u>DAR</u> <i>(Certifier Name printed or typed)</i> <i>(RO or DAR)</i></p> <p>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:</p> <p><i>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).</i></p> <p>Time Period: From _____ to _____ <i>Start Date</i> <i>End Date</i></p> <p>Specific Dates: _____ <i>Date 1</i> <i>Date 2</i> <i>Date 3</i> <i>Date 4</i> <i>Date 5</i> <i>Date 6</i></p>		
<p>Signature: <u>SIGNED IN STEERS</u> Signature Date: _____</p> <p>Title: <u>Executive Director/Site Manager</u></p>		

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 1)
Texas Commission on Environmental Quality**

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250 or to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I. Company Identifying Information
A. Company Name: Formosa Plastics Corporation, Texas
B. Customer Reference Number (CN): CN 600130017
C. Submittal Date (mm/dd/yyyy):
II. Site Information
A. Site Name: Formosa Point Comfort Plant
B. Regulated Entity Reference Number (RN): RN 100218973
C. Indicate affected state(s) required to review permit application: <i>(Check the appropriate box[es].)</i>
<input type="checkbox"/> AR <input type="checkbox"/> CO <input type="checkbox"/> KS <input type="checkbox"/> LA <input type="checkbox"/> NM <input type="checkbox"/> OK <input checked="" type="checkbox"/> N/A
D. Indicate all pollutants for which the site is a major source based on the site's potential to emit: <i>(Check the appropriate box[es].)</i>
<input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> NO _x <input checked="" type="checkbox"/> SO ₂ <input checked="" type="checkbox"/> PM ₁₀ <input checked="" type="checkbox"/> CO <input type="checkbox"/> Pb <input checked="" type="checkbox"/> HAPS
Other:
E. Is the site a non-major source subject to the Federal Operating Permit Program? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
F. Is the site within a local program area jurisdiction? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
G. Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
H. Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III. Permit Type
A. Type of Permit Requested: <i>(Select only one response)</i>
<input checked="" type="checkbox"/> Site Operating Permit (SOP) <input type="checkbox"/> Temporary Operating Permit (TOP) <input type="checkbox"/> General Operating Permit (GOP)

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 2)
Texas Commission on Environmental Quality**

IV. Initial Application Information <i>(Complete for Initial Issuance Applications Only.)</i>
A. Is this submittal an abbreviated or a full application? <input type="checkbox"/> Abbreviated <input type="checkbox"/> Full
B. If this is a full application, is the submittal a follow-up to an abbreviated application? <input type="checkbox"/> YES <input type="checkbox"/> NO
C. If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit? <input type="checkbox"/> YES <input type="checkbox"/> NO
D. Has an electronic copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.) <input type="checkbox"/> YES <input type="checkbox"/> NO
E. Has the required Public Involvement Plan been included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO
V. Confidential Information
A. Is confidential information submitted in conjunction with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VI. Responsible Official (RO) Identifying Information
RO Name Prefix: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
RO Full Name: Ken Mounger
RO Title: Executive Vice President
Employer Name: Formosa Plastics Corporation, Texas
Mailing Address: 9 Peach Tree Hill Road
City: Livingston
State: New Jersey
ZIP Code: 07039
Territory:
Country: USA
Foreign Postal Code:
Internal Mail Code:
Telephone No.: (973)716-7205
Fax No.: (973)994-8005
Email: LeAnnU@ftpc.fpcusa.com

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 3)
Texas Commission on Environmental Quality**

VII. Technical Contact Identifying Information <i>(Complete if different from RO.)</i>
Technical Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Technical Contact Full Name: LeAnn Usoff
Technical Contact Title: Air Permitting Assistant Manager
Employer Name: Formosa Plastics Corporation, Texas
Mailing Address: P.O. Box 700
City: Point Comfort
State: Texas
ZIP Code: 77978
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.: (361) 920-9401
Fax No.:
Email: LeAnnU@ftpc.fpcusa.com
VIII. Reference Only Requirements <i>(For reference only.)</i>
A. State Senator: Lois Kolkhorst
B. State Representative: J.M. Lozano
C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
E. Indicate the alternate language(s) in which public notice is required: Spanish

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 4)
Texas Commission on Environmental Quality**

IX. Off-Site Permit Request <i>(Optional for applicants requesting to hold the FOP and records at an off-site location.)</i>
A. Office/Facility Name:
B. Physical Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
C. Physical Location:
D. Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Contact Full Name:
E. Telephone No.:
X. Application Area Information
A. Area Name: Specialty PVC Plant
B. Physical Address: 201 Formosa Dr.
City: Point Comfort
State: Texas
ZIP Code: 77978
C. Physical Location:
Located at the intersection of FM 1593 and Hwy 35, Extending 1.8 miles north on the east side of FM 1593
and 1.7 miles east on the north side of Hwy 35.
D. Nearest City: Point Comfort
E. State: Texas
F. ZIP Code: 77978

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 5)
Texas Commission on Environmental Quality**

X. Application Area Information <i>(continued)</i>
G. Latitude (nearest second): 28 41' 20" N
H. Longitude (nearest second): 96 32' 50"W
I. Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
J. Indicate the estimated number of emission units in the application area: 469
K. Are there any emission units in the application area subject to the Acid Rain Program? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
XI. Public Notice <i>(Complete this section for SOP Applications and Acid Rain Permit Applications only.)</i>
A. Name of a public place to view application and draft permit: Calhoun County Branch Library
B. Physical Address: 200 W. Mahan St.
City: Port Lavaca
ZIP Code: 77979
C. Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.):
Contact Person Full Name: LeAnn Usoff
Contact Mailing Address: P.O. Box 700
City: Point Comfort
State: Texas
ZIP Code: 77978
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.: (361) 920-9401

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality

Date: April 2024	
Permit No.: O3409	
Regulated Entity No.: RN100218973	
Company Name: Formosa Plastics Corporation, Texas	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
I. Application Type	
Indicate the type of application:	
<input checked="" type="checkbox"/> Renewal	
<input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
<input type="checkbox"/> Significant Revision	
<input type="checkbox"/> Revision Requesting Prior Approval	
<input type="checkbox"/> Administrative Revision	
<input type="checkbox"/> Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
For GOP Revisions Only <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 (continued)
Texas Commission on Environmental Quality**

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:
(Check the appropriate box[es].)

☒ VOC ☒ NO_x ☒ SO₂ ☒ PM₁₀ ☒ CO ☐ Pb ☒ HAP

Other:

IV. Reference Only Requirements (For reference only)

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? ☒ YES ☐ NO ☐ N/A

V. Delinquent Fees and Penalties

Notice: This form will not be processed until all delinquent fees and/or penalties owed to 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.

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality**

Date:
Permit No.: O3409
Regulated Entity No.: 100218973
Company Name: Formosa Plastics Corporation, Texas

Using the table below, provide a description of the 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	SIG-A	No	CT-01	OP-UA15, OP-MON	76305	Adding annual visual emissions monitoring

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

Date:	
Permit No.: 03409	
Regulated Entity No.: 100218973	
Company Name: Formosa Plastics Corporation, Texas	
I. Significant Revision <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i>	
A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
B.	Indicate the alternate language(s) in which public notice is required: Spanish
C.	Will, there be a change in air pollutant emissions as a result of the significant revision? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Form OP-ACPS
Application Compliance Plan and Schedule

Date:	Regulated Entity No.: 100218973	Permit No.: O3409
Company Name: Formosa Plastics Corporation, Texas		Area Name: Specialty PVC Plant

- Part 1 of this form must be submitted with all initial FOP applications and renewal applications.
- The Responsible Official must use Form OP-CRO1 (Certification by Responsible Official) to certify information contained in this form in accordance with 30 TAC § 122.132(d)(8).

Part 1

A. Compliance Plan — Future Activity Committal Statement	
<p>The <i>Responsible Official</i> commits, utilizing reasonable effort, to the following: As the responsible official it is my intent that all emission units shall continue to be in compliance with all applicable requirements they are currently in compliance with, and all emission units shall be in compliance by the compliance dates with any applicable requirements that become effective during the permit term.</p>	
B. Compliance Certification - Statement for Units in Compliance* (Indicate response by entering an "X" in the appropriate column)	
1. With the exception of those emission units listed in the Compliance Schedule section of this form (Part 2, below), and based, at minimum, on the compliance method specified in the associated applicable requirements, are all emission units addressed in this application in compliance with all their respective applicable requirements as identified in this application?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. <i>(For reference only)</i>	
<p>* For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status. For General Operating Permits (GOPs), the application documentation, particularly Form OP-REQ1 should be consulted as well as the requirements contained in the appropriate General Permits portion of 30 TAC Chapter 122.</p> <p>Compliance should be assessed based, at a minimum, on the required monitoring, testing, record keeping, and/or reporting requirements, as appropriate, associated with the applicable requirement in question.</p>	

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
5/1/2024	O3409	100218973

Unit ID No.	Registration No.	PBR No.	Registration Date

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
	O3409	100218973

Unit ID No.	PBR No.	Version No./Date
SPVC-RXFUG	106.371	09/04/2000
EF-604A/B, EF-605, SF-604, SF-605	106.393	09/04/2000
D2REC	106.393	09/04/2000

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
05/01/2024	O3409	100218973

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
SPVC-RXFUG	106.371	09/04/2000	Weekly vinyl chloride monitoring
EF-604A/B, EF-605	106.393	09/04/2000	Visible emissions quarterly, monthly throughput
D2REC	106.393	09/04/2000	Visible emissions quarterly, monthly throughput
SF-604, SF-605	106.393	09/04/2000	Visible emissions quarterly, monthly throughput

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR**

Table 1

Date	Permit No.	Regulated Entity No.
	O3409	100218973

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
	1	CT-01	OP-UA15	Cooling Tower No. 1		76305	PSDTX1058



Appendix B Area-Wide Applicable Requirements Form

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	
Permit No.:	O3409
RN No.:	100218973

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQJ: Page J		
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter		
A. Visible Emissions		
◆	1. The application area includes stationary vents constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The application area includes stationary vents constructed after January 31, 1972. <i>If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6.</i> <i>If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. All stationary vents are addressed on a unit specific basis.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	8. Emissions from units in the application area include contributions from uncombined water.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	
Permit No.:	O3409
RN No.:	100218973

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQJ: Page 2	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
B. Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots	
1. Items a - d determines applicability of any of these requirements based on geographical location.	
◆	a. The application area is located within the City of El Paso.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	b. The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	c. The application area is located in the portion of Harris County inside the loop formed by Beltway 8.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	d. The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If there is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "NO," go to Section I.C.</i>	
2. Items a - d determine the specific applicability of these requirements.	
◆	a. The application area is subject to 30 TAC § 111.143.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	b. The application area is subject to 30 TAC § 111.145.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	c. The application area is subject to 30 TAC § 111.147.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	d. The application area is subject to 30 TAC § 111.149.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Emissions Limits on Nonagricultural Processes	
◆	1. The application area includes a nonagricultural process subject to 30 TAC § 111.151.
	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	2. The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<i>If the response to Question I.C.2 is "NO," go to Question I.C.4.</i>
	3. All vents from nonagricultural process in the application area are subject to additional monitoring requirements.
	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	
Permit No.:	O3409
RN No.:	100218973

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQJ: Page 3

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)

C. Emissions Limits on Nonagricultural Processes (continued)

4.	The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5.	The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.5 is "NO," go to Question I.C.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6.	All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8.	The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.8 is "NO," go to Section I.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
9.	All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO

D. Emissions Limits on Agricultural Processes

1.	The application area includes agricultural processes subject to 30 TAC § 111.171.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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E. Outdoor Burning

◆	1. Outdoor burning is conducted in the application area. <i>If the response to Question I.E.1 is "NO," go to Section II.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)		
E. Outdoor Burning (continued)		
◆	5. Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.	<input type="checkbox"/> YES <input type="checkbox"/> NO
II. Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds		
A. Temporary Fuel Shortage Plan Requirements		
	1. The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds		
A. Applicability		
◆	1. The application area is located in the HoustonIGalvestonIBrazoria area, BeaumontIPort Arthur area, DallasIFort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. <i>See instructions for inclusive counties. If the response to Question III.A.I is "NO," go to Section IV.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
B. Storage of Volatile Organic Compounds		
◆	1. The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
C. Industrial Wastewater	
1. The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. <i>If the response to Question III.C.1 is "NO" or "NIA," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
2. The application area is located at a petroleum refinery in the BeaumontIPort Arthur or HoustonIGalvestonIBrazoria area. <i>If the response to Question III.C.2 is "YES" and the refinery is in the BeaumontIPort Arthur area, go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). <i>If the response to Question III.C.3 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). <i>If the response to Question III.C.4 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Loading and Unloading of VOCs	
◆ 1. The application area includes VOC loading operations.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes VOC transport vessel unloading operations. <i>For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
D. Loading and Unloading of VOCs (continued)		
◆	3. Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities		
◆	1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. <i>If the response to Question III.E.1 is "NO," go to Section III.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. <i>If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area is located in a covered attainment county as defined in 30 TAC § 115.10. <i>If the response to Question III.E.4 is "NO," go to Question III.E.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. <i>If the response to Question III.E.7 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)		
◆	8. At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. <i>If the response to Question III.E.8 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)		
◆	1. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)

◆	2. Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	3. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA

G. Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities

◆	1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks. <i>If the response to Question III.G.1 is "NO" or "NIA," go to Section III.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆	2. The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes facilities that began construction prior to November 15, 1992. <i>If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
H. Control Of Reid Vapor Pressure (RVP) of Gasoline	
◆ 1. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County. <i>If the response to Question III.H.I is "NO" or "NIA," go to Section III.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆ 2. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes a motor vehicle fuel dispensing facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	<input type="checkbox"/> YES <input type="checkbox"/> NO
I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries	
1. The application area is located at a petroleum refinery.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
J. Surface Coating Processes (Complete this section for GOP applications only.)	
◆ 1. Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(3)(A) or 115.427(7) are performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

K. Cutback Asphalt

1.	Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. <i>If the response to Question III.K.I is "NIA," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
2.	The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
3.	Asphalt emulsion is used or produced within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area is using an alternate control requirement as specified in 30 TAC § 115.513. <i>If the response to Question III.K.4 is "NO," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The applicant using cutback asphalt is a state, municipal, or county agency.	<input type="checkbox"/> YES <input type="checkbox"/> NO

L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels

◆	1. The application area includes degassing operations for stationary, marine, and/or transport vessels. <i>If the response to Question III.L.1 is "NO" or "NIA," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆	2. Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. <i>If the response to Question III.L.2 is "YES," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)		
◆	3. Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	4. Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	5. Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	7. Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure 2 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
M. Petroleum Dry Cleaning Systems		
	1. The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

N. Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC))

1.	The application area includes one or more vent gas streams containing HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
2.	The application area includes one or more flares that emit or have the potential to emit HRVOC. <i>If the responses to Questions III.N.1 and III.N.2 are both "NO" or "NIA," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
3.	All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. <i>If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area contains pressure relief valves that are not controlled by a flare.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area has at least one vent stream which has no potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	<input type="checkbox"/> YES <input type="checkbox"/> NO

O. Cooling Tower Heat Exchange Systems (HRVOC)

1.	The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds

A. Applicability

◆	1. The application area is located in the Houston Galveston Brazoria, Beaumont Port Arthur, or Dallas Fort Worth Eight-Hour area. <i>For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H. For GOP applications for GOPs 5I1, 5I2, 5I3, or 5I4, if the response to Question IV.A.1 is "YES," go to Section IV.F. For GOP applications for GOP 5I7, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F. For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. <i>If the response to Question IV.A.2 is "YES," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3. The application area includes a utility electric generator in an east or central Texas county. <i>See instructions for a list of counties included. If the response to Question IV.A.3 is "YES," go to Question IV.G.1. If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

B. Utility Electric Generation in Ozone Nonattainment Areas

	1. The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. <i>If the response to Question IV.B.1 is "NO," go to Question IV.C.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	2. The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas

◆	1. The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. <i>For SOP applications, if the response to Question IV.C.I is "NO," go to Question IV.D.I. For GOP applications for GOP 5I7, if the response to Question IV.C.I is "NO," go to Section IV.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is located at a site that was a major source of NO _x before November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	3. The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	<input type="checkbox"/> YES <input type="checkbox"/> NO

D. Adipic Acid Manufacturing

	1. The application area is located at, or part of, an adipic acid production unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
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E. Nitric Acid Manufacturing - Ozone Nonattainment Areas

	1. The application area is located at, or part of, a nitric acid production unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
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F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines

◆	1. The application area is located at a site that is a minor source of NO _x in the HoustonIGalvestonIBrazoria or DallasIFort Worth Eight-Hour areas (except for Wise County). <i>For SOP applications, if the response to Question IV.F.I is "NO," go to Question IV.G.I. For GOP applications, if the response to Question IV.F.I is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is located in the HoustonIGalvestonIBrazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is located in the HoustonIGalvestonIBrazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)

◆	4. The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	6. The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125. <i>If the response to Question IV.F.6 is "NO," go to Section IV.G.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	7. An ACSS for carbon monoxide (CO) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8. An ACSS for ammonia (NH ₃) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> NO
	9. Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS below.	

G. Utility Electric Generation in East and Central Texas

	1. The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. <i>If the response to Question IV.G.1 is "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	2. The application area is complying with the System Cap in 30 TAC § 117.3020.	<input type="checkbox"/> YES <input type="checkbox"/> NO

H. Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters

	1. The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. <i>If the response to question IV.H.1 is "NO," go to Section V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products	
A. Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings	
1. The application area manufactures automobile refinishing coatings or coating components and sells or distributes these coatings or coating components in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area imports automobile refinishing coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. <i>If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. All automobile refinishing coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).	<input type="checkbox"/> YES <input type="checkbox"/> NO
B. Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products	
1. The application area manufactures consumer products for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products. <i>If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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Form OP-REQJ: Page J7	
V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)	
C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings	
1. The application area manufactures or imports architectural coatings for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. <i>If the responses to Questions V.C.I-2 are both "NO," go to Section V.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings	
1. The application area manufactures or imports aerosol coating products for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is a distributor of aerosol coatings for resale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers	
1. The application area manufactures or imports portable fuel containers for sale or distribution in the United States. <i>If the response to Question V.E.I is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards	
A. Applicability	
◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. <i>If the response to Question VI.A.I is "NO," go to Section VII.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)		
B. Subpart Y - Standards of Performance for Coal Preparation and Processing Plants		
1.	The application area is located at a coal preparation and processing plant. <i>If the response to Question VI.B.1 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). <i>If the response to Question VI.B.2 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. <i>If the response to Question VI.B.3 is "YES," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The plant contains an open storage pile, as defined in § 60.251, as an affected facility. <i>If the response to Question VI.B.4 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The open storage pile was constructed, reconstructed or modified after May 27, 2009.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)		
◆ 1.	The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/lhr (10.7GJ/lhr), based on the lower heating value of the fuel fired. <i>If the response to Question VI.C.1 is "NO" or "NIA," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆ 2.	One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. <i>If the response to Question VI.C.2 is "NO," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3.	One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4.	The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)	
◆ 5. One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals	
1. The application area includes bulk gasoline terminal loading racks. <i>If the response to Question VI.D.I is "NO," go to Section VI.E.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
2. One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions	
◆ 1. The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). <i>For SOP applications, if the response to Question VI.E.I is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.I is "NO" or "NIA," go to Section VI.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. <i>For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD. <i>For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions (continued)

◆	4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. <i>For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.	

F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

1.	The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. <i>If the response to Question VI.F.I is "NO," go to Section VI.G.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	<input type="checkbox"/> YES <input type="checkbox"/> NO

G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems

1.	The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. <i>If the response to Question VI.G.I is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area includes storm water sewer systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)	
3. The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes non-contact cooling water systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes individual drain systems. <i>If the response to Question VI.G.5 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes completely closed drain systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004	
◆ 1. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.H.I. is "NIA," go to Section VI.I. If the response to Question VI.H.I is "NO," go to Question VI.H.4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆ 2. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.H.4 is "NO," go to Section VI.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)		
H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)		
◆	5. The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. <i>If the response to Question VI.H.5 is "NO," go to Question VI.H.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001		
◆	1. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.I.1 is "NIA," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆	2. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)

◆	3. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.I.4 is "NO," go to Section VI.J.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. <i>If the response to Question VI.I.5 is "NO," go to VI.I.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006

◆	1. The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.J.I is "NIA," go to Section VI.K. If the response to Question VI.J.I is "NO," go to Question VI.J.4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
◆	2. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.J.4 is "NO," go to Section VI.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. <i>If the response to Question VI.J.5 is "NO," go to Question VI.J.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)

◆	8. All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

K. Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

◆	1. The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants

A. Applicability

◆	1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts. <i>If the response to Question VII.A.I is "NO" or "NIA," go to Section VIII.</i>	× YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
---	--	---

B. Subpart F - National Emission Standard for Vinyl Chloride

	1. The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.	× YES <input type="checkbox"/> NO
--	---	-----------------------------------

C. Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks Emission Sources) of Benzene (Complete this section for GOP applications only)

◆	1. The application area includes equipment in benzene service.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
---	--	--

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants

- | | |
|---|---|
| 1. The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b).
<i>If the response to Question VII.D.1 is "NO," go to Section VII.E.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

E. Subpart M - National Emission Standard for Asbestos

Applicability

- | | |
|---|---|
| 1. The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155.
<i>If the response to Question VII.E.1 is "NO," go to Section VII.F.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|---|

Roadway Construction

- | | |
|---|--|
| 2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
|---|--|

Manufacturing Commercial Asbestos

- | | |
|--|--|
| 3. The application area includes a manufacturing operation using commercial asbestos.
<i>If the response to Question VII.E.3 is "NO," go to Question VII.E.4.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| a. Visible emissions are discharged to outside air from the manufacturing operation | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Manufacturing Commercial Asbestos (continued)

c. Asbestos-containing waste material is processed into non-friable forms.	YES <input type="checkbox"/> NO <input type="checkbox"/>
d. Asbestos-containing waste material is adequately wetted.	YES <input type="checkbox"/> NO <input type="checkbox"/>
e. Alternative filtering equipment is being used that has received EPA approval.	YES <input type="checkbox"/> NO <input type="checkbox"/>
f. A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	YES <input type="checkbox"/> NO <input type="checkbox"/>
g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	YES <input type="checkbox"/> NO <input type="checkbox"/>

Asbestos Spray Application

4. The application area includes operations in which asbestos-containing materials are spray applied. <i>If the response to Question VII.E.4 is "NO," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. <i>If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Asbestos Spray Application (continued)

d. Asbestos-containing waste material is processed into non-friable forms.	YES <input type="checkbox"/> NO <input type="checkbox"/>
e. Asbestos-containing waste material is adequately wetted.	YES <input type="checkbox"/> NO <input type="checkbox"/>
f. Alternative filtering equipment is being used that has received EPA approval.	YES <input type="checkbox"/> NO <input type="checkbox"/>
g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	YES <input type="checkbox"/> NO <input type="checkbox"/>
h. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	YES <input type="checkbox"/> NO <input type="checkbox"/>

Fabricating Commercial Asbestos

5. The application area includes a fabricating operation using commercial asbestos. <i>If the response to Question VII.E.5 is "NO," go to Question VII.E.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Fabricating Commercial Asbestos (continued)

f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles. YES ☐ NO

g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals. YES ☐ NO

Non-sprayed Asbestos Insulation

6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying. YES ☐ NO

Asbestos Conversion

7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material. ☐ YES ☐ NO

F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities

1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process. ☐ YES ☒ NO

G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations

1. The application area is located at a benzene production facility and/or bulk terminal.
If the response to Question VII.G.1 is "NO," go to Section VII.H. ☐ YES ☒ NO

2. The application area includes benzene transfer operations at marine vessel loading racks. ☐ YES ☐ NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)	
3. The application area includes benzene transfer operations at railcar loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
H. Subpart FF - National Emission Standard for Benzene Waste Operations	
Applicability	
1. The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (MgIyr). <i>If the response to Question VII.H.4 is "YES," go to Section VIII</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 MgIyr but less than 10 MgIyr. <i>If the response to Question VII.H.5 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
Applicability (continued)	
6. The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has waste streams with flow-weighted annual average water content of 10% or greater.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Waste Stream Exemptions	
8. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 MgIyr.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
10. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 MgIyr.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
11. The application area transfers waste off-site for treatment by another facility.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
12. The application area is complying with 40 CFR § 61.342(d).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13. The application area is complying with 40 CFR § 61.342(e). <i>If the response to Question VII.H.13 is "NO," go to Question VII.H.15.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
14. The application area has facility waste with a flow weighted annual average water content of less than 10%.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Container Requirements

15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. ☐ YES ☒ NO
If the response to Question VII.H.15 is "NO," go to Question VII.H.18.

16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. ☐ YES ☐ NO
If the response to Question VII.H.16 is "YES," go to Question VII.H.18.

17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure. ☐ YES ☐ NO

Individual Drain Systems

18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. ☐ YES ☒ NO
If the response to Question VII.H.18 is "NO," go to Question VII.H.25.

19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. ☐ YES ☐ NO
If the response to Question VII.H.19 is "YES," go to Question VII.H.25.

20. The application area has individual drain systems complying with 40 CFR § 61.346(a). ☐ YES ☐ NO
If the response to Question VII.H.20 is "NO," go to Question VII.H.22.

21. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure. ☐ YES ☐ NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Individual Drain Systems (continued)

22. The application area has individual drain systems complying with 40 CFR § 61.346(b).
If the response to Question VII.H.22 is "NO," go to Question VII.H.25.

YES ☐ NO

23. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.

YES ☐ NO

24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.

YES ☐ NO

Remediation Activities

25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.

YES ☒ NO

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories

A. Applicability

◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63.
See instructions for 40 CFR Part 63 subparts made applicable only by reference.

☒ YES ☐ NO

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry

1. The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a).
If the response to Question VIII.B.I is "NO," go to Section VIII.D.

☒ YES ☐ NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)

2.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). <i>If the response to Question VIII.B.2 is "NO," go to Section VIII.D.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. <i>If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

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

Applicability

- | | | |
|----|--|--|
| 1. | The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F.
<i>If the response to Question VIII.C.1 is "NO," go to Section VIII.D.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. | The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148.
<i>If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere.
<i>If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Vapor Collection and Closed Vent Systems

- | | | |
|----|---|--|
| 6. | Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Reloading or Cleaning of Railcars, Tank Trucks, or Barges

8. The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. ☐ YES ☐ NO
If the response to Question VIII.C.8 is "NO," go to Question VIII.C.II.

9. The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater. ☐ YES ☐ NO

10. The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system. ☐ YES ☐ NO

Transfer Racks

11. The application area includes Group 1 transfer racks that load organic HAPs. ☐ YES ☐ NO

Process Wastewater Streams

12. The application area includes process wastewater streams. ☐ YES ☐ NO
If the response to Question VIII.C.I2 is "NO," go to Question VIII.C.34.

13. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. ☐ YES ☐ NO
If the response to Question VIII.C.I3 is "NO," go to Question VIII.C.I5.

14. The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii). ☐ YES ☐ NO

15. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. ☐ YES ☐ NO
If the response to Question VIII.C.I5 is "NO," go to Question VIII.C.I7.

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Process Wastewater Streams (continued)

16.	The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. <i>If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
18.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
19.	The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21.	The application area includes process wastewater streams, located at existing sources that are Group 2.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
23.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Process Wastewater Streams (continued)

24.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
25.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
26.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
27.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
28.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.C.27 - VIII.C.28 are both "NO," go to Question VIII.C.30.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Drains

- | | |
|---|--|
| 31. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.
<i>If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 33. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 34. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b).
<i>If the response to Question VIII.C.34 is "NO," go to Question VIII.C.39.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 35. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d).
<i>If the response to Question VIII.C.35 is "NO," go to Question VIII.C.39.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 36. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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C. Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)

Drains (continued)

37. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute. ☐ YES ☐ NO

38. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute. ☐ YES ☐ NO

Gas Streams

39. The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant. ☐ YES ☐ NO

40. The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5). ☐ YES ☐ NO

D. Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

1. The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations. ☐ YES ☒ NO

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Form OP-REQ1
Federal Operating Permit Program

Date:	
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RN No.:	100218973

For SOP applications, answer ALL questions unless otherwise directed.

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
E. Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities	
1. The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials. <i>If the response to Question VIII.E.1 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O. <i>If the response to Question VIII.E.2 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers	
1. The application area includes industrial process cooling towers. <i>If the response to Question VIII.F.1 is "NO," go to Section VIII.G.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Chromium-based water treatment chemicals have been used on or after September 8, 1994.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)	
1. The application area includes a bulk gasoline terminal.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes a pipeline breakout station. <i>If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station. <i>If the response to Question VIII.G.3 is "YES," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)

4.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. <i>If the response to Question VIII.G.4 is "YES," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. <i>If the response to Question VIII.G.5 is "NO," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). <i>If the response to Question VIII.G.6 is "NO," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	Emissions screening factor less than 0.5 (ET or EP < 0.5). <i>If the response to Question VIII.G.7 is "YES," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). <i>If the response to Question VIII.G.8 is "YES," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). <i>If the response to Question VIII.G.9 is "YES," go to Question VIII.G.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The site at which the application area is located is a major source of HAP. <i>If the response to Question VIII.G.10 is "NO," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2. <i>If the response to Question VIII.H.1 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). <i>If the response to Question VIII.H.2 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. <i>If the response to Question VIII.H.3 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes one or more kraft pulping systems that are existing sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. <i>If the response to Question VIII.H.6 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning

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|---|---|
| 1. The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins

- | | |
|--|---|
| 1. The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units.
<i>If the response to Question VIII.J.1 is "NO," go to Section VIII.K.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U.
<i>If the response to Question VIII.J.2 is "NO," go to Section VIII.K.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MGIyr. <i>If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MGIyr. <i>If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.II.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)	
Containers	
11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Drains	
12. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. <i>If the response to Question VIII.J.15 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). <i>If the response to Question VIII.J.16 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

Drains (continued)

- | | |
|--|--|
| 17. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production

- | | |
|--|---|
| 1. The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area.
<i>If the response to Question VIII.K.I is "NO" or "NIA," go to Section VIII.L.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> NIA |
| 2. The application area includes a BLR and/or WSR research and development facility. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

L. Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting

- | | |
|---|---|
| 1. The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter.
<i>If the response to Question VIII.L.1 is "NO" or "NIA," go to Section VIII.M.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> NIA |
| 2. The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

M. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations

- | | |
|---|---|
| 1. The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|---|

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Applicability

- | | |
|--|---|
| 1. The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7).
<i>If the response to Question VIII.N.1 is "NO," go to Section VIII.O.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. All petroleum refining process units and/or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7).
<i>If the response to Question VIII.N.2 is "YES," go to Section VIII.O.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

Applicability (continued)

3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). <i>If the response to Question VIII.N.3 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. <i>If the response to Question VIII.N.4 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. <i>If the response to Question VIII.N.7 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

Applicability (continued)

9. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO
If the response to Question VIII.N.9 is "NO," go to Section VIII.O.

10. The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992. ☐ YES ☐ NO

Containers, Drains, and other Appurtenances

11. The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO

12. The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations

1. The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). ☐ YES ☐ NO ☒ NIA
If the response to Question VIII.O.1 is "NO" or "NIA," go to Section VIII.P

2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area. ☐ YES ☐ NO

3. The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265. ☐ YES ☐ NO

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O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)	
4. The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a "state" or "municipality."	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The predominant activity in the application area is the treatment of wastewater received from off-site.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. <i>If the response to Question VIII.O.10 is "YES," go to Section VIII.P.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)

11. The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. <i>If the response to Question VIII.O.II is "NO," go to Question VIII.O.I4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. VOHAP concentration is determined by direct measurement.	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. VOHAP concentration is based on knowledge of the off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. <i>If the response to Question VIII.O.I4 is "NO," go to Question VIII.O.I7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes containers that manage non-exempt off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes individual drain systems that manage non-exempt off-site materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

P. Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities

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|--|---|
| 1. The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components.
<i>If the response to Question VIII.P.I is "NO" or "NIA," go to Section VIII.Q.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> NIA |
| 2. The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.

- | | |
|---|---|
| ◆ 1. The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ 2. The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user.
<i>For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.</i>
<i>For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ 3. The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761.
<i>For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.</i>
<i>For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ 4. The application area is located at a site that is a major source of HAP.
<i>If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)

◆	5. The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft ³) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day. <i>For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R.</i> <i>For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z.</i> <i>For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. The application area includes a triethylene glycol (TEG) dehydration unit. <i>For SOP applications, if the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
R. Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)	
1. The application area includes shipbuilding or ship repair operations. <i>If the response to Question VIII.R.I is "NO," go to Section VIII.S.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	<input type="checkbox"/> YES <input type="checkbox"/> NO
S. Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations	
1. The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations. <i>If the response to Question VIII.S.I is "NO" or "NIA," go to Section VIII.T.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	<input type="checkbox"/> YES <input type="checkbox"/> NO
T. Subpart KK - National Emission Standards for the Printing and Publishing Industry	
1. The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
U. Subpart PP - National Emission Standards for Containers	
1. The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions. <i>If the response to Question VIII.U.I is "NO," go to Section VIII.V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes containers using Container Level 1 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes containers using Container Level 2 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
U. Subpart PP - National Emission Standards for Containers (continued)	
4. The application area includes containers using Container Level 3 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO
V. Subpart RR - National Emission Standards for Individual Drain Systems	
1. The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards	
1. The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. <i>If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MGIyr.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MGIyr. <i>If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.II.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.W.I2 is "NO," go to Question VIII.W.I5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. <i>If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). <i>If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area includes an ethylene production process unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
21. The application area includes waste streams generated from an ethylene production process unit. <i>If the responses to Questions VIII.W.20 and VIII.W.2I are both "NO" or "NIA," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA
22. The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). <i>If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23. Waste stream(s) are transferred off-site for treatment. <i>If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. <i>If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
25. The total annual benzene quantity from waste at the site is less than 10 Mglyr as determined according to 40 CFR § 61.342(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). <i>If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
27. The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. <i>If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
28. The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). <i>If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29. The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30. The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. <i>If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
31. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. <i>If the response to Question VIII.W.32 is required, go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
33. The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. <i>If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
34. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
35. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
36. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. <i>If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
37. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

38.	The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
39.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
40.	The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
41.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
42.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
43.	The application area has at least one waste stream that contains benzene. <i>If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
44.	The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. <i>If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
45.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

46. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
47. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. <i>If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
48. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
49. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
50. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
51. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
52. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
53. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
54. The application area contains a cyanide chemicals manufacturing process. <i>If the response to Question VIII.W.54 is "NO," go to Section VIII.X.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	<input type="checkbox"/> YES <input type="checkbox"/> NO
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins	
1. The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. <i>If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. <i>If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene. <i>If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. <i>If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MGIyr. <i>If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MGIyr. <i>If the response to Question VIII.X.9 is "NO," go to Question VIII.X.II.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.X.II - VIII.X.12 are both "NO," go to Question VIII.X.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)	
13. The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Containers	
14. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Drains	
15. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. <i>If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

Drains (continued)

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| 19. | The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12).
<i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 20. | The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 21. | The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 22. | The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
Y. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	
1. The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Z. Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.	
◆ 1. The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)	
1. The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. <i>If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. <i>If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

5.	The application area includes process wastewater streams. <i>If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.I8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.8 is "YES," go to Section VIII.AA.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.II.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.AA.II and VIII.AA.I2 are both "NO," go to Question VIII.AA.I8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

13.	Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). <i>If the response to Question VIII.AA.I3 is "NO," go to Question VIII.AA.I5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
14.	The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15.	Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. <i>If the response to Question VIII.AA.I5 is "NO," go to Question VIII.AA.I7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16.	The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
19.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.AA.I9 is "NO," go to Question VIII.AA.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)	
21. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). <i>If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). <i>If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	<input type="checkbox"/> YES <input type="checkbox"/> NO
25. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.

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| 1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
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CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation

- | | |
|---|---|
| 1. The application area includes a facility at which a site remediation is conducted.
<i>If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area is located at a site that is a major source of HAP.
<i>If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6).
<i>If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr.
<i>If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. The site remediation will be completed within 30 consecutive calendar days. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 6. No site remediation will exceed 30 consecutive calendar days.
<i>If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 8. All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.
<i>If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)

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| 9. | The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG.
<i>If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 10. | The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 11. | The application area includes containers with a capacity greater than 0.46 m ³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 12. | The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 13. | The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 14. | The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities

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| 1. | The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions.
<i>If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The EAF steelmaking facility is a research and development facility.
<i>If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | Metallic scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | Scrap containing motor vehicle scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | Scrap not containing motor vehicle scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

EE. Subpart BBBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities

1.	The application area is located at a site that is an area source of HAPs. <i>If the answer to Question EE.1 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBBB.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBBB. <i>If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. <i>If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The bulk gasoline terminal has throughput of less than 250,000 gallons per day. <i>If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The bulk gasoline terminal loads gasoline into railcar cargo tanks. <i>If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
EE. Subpart BBBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)	
11. The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
FF. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	
◆ 1. The application area is located at a site that is an area source of hazardous air pollutants. <i>If the answer to Question VIII.FF.I is "NO," go to Section VIII.GG.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. <i>If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
GG. Recently Promulgated 40 CFR Part 63 Subparts	
◆ 1. The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form. <i>If the response to Question VIII.GG.I is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQI is included in the instructions.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. HHHHHHHH	

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IX. Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions	
A. Applicability	
◆ 1. The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone	
A. Subpart A - Production and Consumption Controls	
◆ 1. The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
B. Subpart B - Servicing of Motor Vehicle Air Conditioners	
◆ 1. Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
C. Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	
◆ 1. The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
D. Subpart D - Federal Procurement	
◆ 1. The application area is owned/operated by a department, agency, or instrumentality of the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
E. Subpart E - The Labeling of Products Using Ozone Depleting Substances	
◆ 1. The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆ 2. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆ 3. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA

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X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)	
F. Subpart F - Recycling and Emissions Reduction	
◆ 1. Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆ 3. The application area manufactures appliances or refrigerant recycling and recovery equipment.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
G. Subpart G - Significant New Alternatives Policy Program	
◆ 1. The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound. <i>If the response to Question X.G.I is "NO" or "NIA," go to Section X.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆ 2. All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
H. Subpart H -Halon Emissions Reduction	
◆ 1. Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆ 2. Disposal of halons or manufacturing of halon blends is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
XI. Miscellaneous	
A. Requirements Reference Tables (RRT) and Flowcharts	
1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XI. Miscellaneous (continued)

B. Forms

◆	1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. <i>If the response to Question XI.B.1 is "NO" or "NIA," go to Section XI.C.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	2.	Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below. HHHHHHH	

C. Emission Limitation Certifications

◆	1.	The application area includes units for which federally enforceable emission limitations have been established by certification.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
---	----	--	---

D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements

	1.	The application area is located at a site that is subject to a site-specific requirement of the state implementation plan (SIP).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2.	The application area includes units located at the site that are subject to a site-specific requirement of the SIP.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. <i>If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	4.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. <i>If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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XI. Miscellaneous (continued)	
E. Title IV - Acid Rain Program	
1. The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
F. 40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_x Ozone Season Group 2 Trading Program	
1. The application area includes emission units subject to the requirements of the CSAPR NO _x Ozone Season Group 2 Trading Program. <i>If the response to Question XI.F.1 is "NO," go to Question XI.F.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes emission units that qualify for the CSAPR NO _x Ozone Season Group 2 retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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XI. Miscellaneous (continued)

G. 40 CFR Part 97, Subpart FFFFF - Texas SO₂ Trading Program

- | | |
|--|---|
| 1. The application area includes emission units complying with the requirements of the Texas SO ₂ Trading Program.
<i>If the response to Question XI.G.1 is "NO," go to Question XI.G.6.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO ₂ and 40 CFR Part 75, Subpart H for heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO ₂ and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO ₂ and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO ₂ and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 6. The application area includes emission units that qualify for the Texas SO ₂ Trading Program retired unit exemption. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

H. Permit Shield (SOP Applicants Only)

- | | |
|--|---|
| 1. A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
|--|---|

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQJ: Page 8J		
XI. Miscellaneous (continued)		
I. GOP Type (Complete this section for GOP applications only)		
◆	1. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
J. Title 30 TAC Chapter 101, Subchapter H		
◆	1. The application area is located in a nonattainment area. <i>If the response to Question XI.J.1 is "NO," go to question XI.J.3.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NIA
◆	3. The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NIA

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XI. Miscellaneous (continued)

J. Title 30 TAC Chapter 101, Subchapter H (continued)

◆	4.	The application area is located at a site in the HoustonIGalvestonIBrazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO _x .	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5.	The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6.	The application area is located at a site in the HoustonIGalvestonIBrazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7.	The application area is located at a site in the HoustonIGalvestonIBrazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

K. Periodic Monitoring

◆	1.	The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	2.	The permit currently contains at least one periodic monitoring requirement. <i>If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	3.	All periodic monitoring requirements are being removed from the permit with this application.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XI. Miscellaneous (continued)

L. Compliance Assurance Monitoring

◆	1. The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. <i>If the response to Question XI.L.1 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. <i>If the response to Question XI.L.2 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. <i>If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	5. The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	6. Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.	
◆	7. At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). <i>If the response to Question XI.L.8 is "YES," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XI. Miscellaneous (continued)		
L. Compliance Assurance Monitoring (continued)		
◆	9. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses particulate matter, and the emission unit has a capture system as defined in 40 CFR §64.1.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses a regulated pollutant other than particulate matter or VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	<input type="checkbox"/> YES <input type="checkbox"/> NO
M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times		
◆	1. The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. <i>If the response to Question XI.M.I is "NO," or "NIA," go to Section XII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NIA
◆	2. All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
XII. New Source Review (NSR) Authorizations		
A. Waste Permits with Air Addendum		
◆	1. The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum. <i>If the response to XII.A.I is "YES," include the waste permit numbers and issuance date in Section XII.J.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XII. New Source Review (NSR) Authorizations (continued)

B. Air Quality Standard Permits

◆	1.	The application area includes at least one Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H and answer XII.B.2 - B.16 as appropriate.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2.	The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	3.	The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	4.	The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5.	The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6.	The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7.	The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	8.	The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	9.	The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	10.	The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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XII. New Source Review (NSR) Authorizations (continued)

B. Air Quality Standard Permits (continued)

◆	11. The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	12. The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.12 is "NO," go to Question XII.B.15.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	13. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	14. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	15. The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	16. The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

C. Flexible Permits

1.	The application area includes at least one Flexible Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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D. Multiple Plant Permits

1.	The application area includes at least one Multi-Plant Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
----	--	---

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XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)			
E. PSD Permits and PSD Major Pollutants			
PSD Permit No.: PSDTX1058	Issuance Date: 06/12/2019	Pollutant(s): PM10, VOC	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
<i>If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
F. Nonattainment (NA) Permits and NA Major Pollutants			
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
<i>If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
G. NSR Authorizations with FCAA § 112(g) Requirements			
NSR Permit No.: 76305	Issuance Date: 06/12/2019	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
◆ H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area			
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

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Form OP-REQ1: Page 88	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
◆ I. Permits by Rule (30 TAC Chapter 106) for the Application Area	
<i>A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.</i>	
PBR No.: 106.263	Version No./Date: 11/01/2001
PBR No.: 106.371	Version No./Date: 09/04/2000
PBR No.: 106.393	Version No./Date: 09/04/2000
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
◆ J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum	
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:



Appendix C Monitoring Forms

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: CB-0038-Q	RN No.: 100218973	CN: 600130017
Permit No: O3409		Project No.: TBD
Area Name: Specialty PVC Plant		
Company Name: Formosa Plastics Corporation, Texas		
II. Unit/Emission Point/Group/Process Information		
Revision No.: N/A		
Unit/EPN/Group/Process ID No.: CT-01		
Applicable Form: OP-UA15		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R1111-2		
Pollutant: Opacity		
Main Standard: 30 TAC 111.111(a)(1)(C)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Same as PM-P-001		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: Same as PM-P-001		Minimum Frequency: Once per year
Averaging Period: N/A		
Periodic Monitoring Text: Same as PM-P-001		



Appendix D Unit Attributes Forms

**Texas Commission on Environmental Quality
Miscellaneous Unit Attributes
Form OP-UA1 (Page 1)
Federal Operating Permit Program**

Date:	
Permit No.:	O3409
Regulated Entity No.:	100218973

Unit ID No.	SOP/GOP Index No.	Unit Type	Date Constructed/Placed in Service	Functionally Identical Replacement	Maximum Rated Capacity	Technical Information and Unit Description
FUG-01	63UU-1	EP				Piping Equipment Fugitives, 40 CFR 63 Subpart UU
TF-01	63UU-1	EP				Piping Equipment Fugitives, 40 CFR 63 Subpart UU
Spec PVC	63J-1	PRO				Process Unit, 40 CRF 63 Subpart J
Spec PVC	63SS-1	PRO				Process Unit, 40 CFR 63 Subpart SS

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)

Federal Operating Permit Program

Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality

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Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
EG-01	63ZZZZ-1	MAJOR	500+	02-06		EMER-B	CI
EG-02	63ZZZZ-1	MAJOR	500+	02-06		EMER-B	CI
EG-03	63ZZZZ-1	MAJOR	500+	02-06		EMER-B	CI
EG-04	63ZZZZ-1	MAJOR	500+	02-06		EMER-B	CI

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	WW Tank Control	Maximum TVP	Storage Vessel Description	AMEL ID No.	Guidepole	Reid Vapor Pressure	Control Device ID No.
T-D01	60KB-1	YES	10K-							
T-D02	60KB-1	YES	10K-							
T-D03	60KB-1	YES	10K-							
T-D04	60KB-1	YES	10K-							

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
T-D01	60KB-1	NO		VOC2	C1K-			
T-D02	60KB-1	NO		VOC2	C1K-			
T-D03	60KB-1	NO		VOC2	C1K-			
T-D04	60KB-1	NO		VOC2	C1K-			

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 78)
Federal Operating Permit Program
Table 11a: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart F: National Emission Standard for Vinyl Chloride
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Unit ID. No.	SOP Index No.	Title 40 CFR	Part 61	Subpart F	Fugitive Unit	Components			
		Relief Valves	Loading and Unloading	Slip Gauges	Pumps			Compressors	
					In process Wastewater Streams	Rotating Pumps	Reciprocating Pumps	Rotating Compressors	Reciprocating Compressors
FUG-01	61F-1	Yes	No	No	Yes	Yes	No	Yes	No
TF-01	61F-1	Yes	No	No	No	Yes	No	No	No

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 79)
Federal Operating Permit Program
Table 11b: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart F: National Emission Standard for Vinyl Chloride
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Unit ID No.	SOP Index No.	Title 40 CFR	Part 61	Subpart F	Fugitive Unit	Components			
		Agitator	Sampling Equipment	Valves	Approved Leak Detection Plan	Open-ended Valves or Lines	Multiple Process Service Line	Flare	Control Device ID No.
FUG-01	61F-1	Yes	No	Yes	Yes	Yes	No	No	
TF-01	61F-1	No	No	Yes	Yes	Yes	No	No	

Fugitive Emission Unit Attributes
Form OP-UA12 (Page 80)
Federal Operating Permit Program
Table 11c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart F: National Emission Standard for Vinyl Chloride
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Unit ID No.	SOP Index No.	Title 40 CFR	Part 61 Subpart	F Fugitive Unit	Components	Title 40 CFR Part 61, Subpart F Fugitive Unit Description
		Enclosed Combustion Device	Control Device ID No.	Vapor Recovery System	Control Device ID No.	
FUG-01	61F-1	No		No		
TF-01	61F-1	No		No		

Texas Commission on Environmental Quality

Cooling Tower Attributes

Form OP-UA13 (Page 1)

Federal Operating Permit Program

Table 1: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart Q: National Emission Standards for Hazardous Air Pollutants (HAPs) for Industrial Process Cooling Towers

Date	Permit No.:	Regulated Entity No.
	03409	100218973

Unit ID No.	SOP Index No.	Used Compounds Containing Chromium on or After September 8, 1994	Initial Start-up Date
CT-01	63Q-1	NO	

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
CT-01	R1111-2	NO		OTHER	NONE	72+	100+

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	10218973

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
I-01/I-02	R5121-1	NO	NO	CLASVOC				

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 4)
Federal Operating Permit Program
Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
	03409	100218973

Emission Point ID No.	SOP Index No.	Alternate Control Requirement	ACR ID No.	Control Device Type	Control Device ID No.
I-01/I-02	R5121-1	NONE		DIRFLM	I-01/I-02



Appendix E Alternative Method of Compliance

Ilryan W. Shaw, Ph.D., P.E., *Cllnlmran*
TolJy Baker, Co111111fssto11er
Jon Niermann, *Commissioner*
Richard A. Hycle, I.E., *Executive JJ/rector*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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December 14, 2016

MR RICK CRABTREE
ASSISTANT GENERAL MANAGER
FORMOSA PLASTICS CORPORATION TEXAS
PO BOX 700
POINT COMFORT TX 77978-0700

Re: Alternative Method of Compliance (AMOC) No. 66
Alternative Monitoring For Cooling Towers
Formosa Point Comfort Plant
Regulated Entity Number: RN100218973
Customer Reference Number: CN600130017
Associated Permit Numbers: 7699, 19166, 10167, 19168, 19198, H>199, 19200,
19201, 20203, 40157, 76044, 76305, 91780, 107518, 107520, 127838, 128752,
HAI'10, PSDTX105], PSDTX1058, PSDTX1222, PSDTX1224, PSDTX1226,
PSDTX1232, PSDTX1234, PSDTX1237, PSDTX1238, PSDTX1240, PSDTX1383,
PSDTX1384, PSDTX226M7, PSDTX760M9, 01484, 01951, O19S3, 01954, 01956,
O19S7, 01958, 03409, and 03421

Dear Mr. Crabtree:

This correspondence is in response to Formosa Plastics Corporation, Texas's (Formosa's) request for Alternative Monitoring for all cooling towers (CT) at the Pormosa Point Comfort Planl. The AMOC is used to comply with requirements for sampling and analysis of voes in cooling tower feed water and makeup water.

We understand that Formosa is requestling clarification and confirmation of the alternative **VOE** sampling procedure for all authorized **ct**" at the site installed on similar product processes (sec Attachment 1). This alternative method was previously approved for Formosa on December 2, 1992, January 11, 1996, and August 1997.

The alternative **VOE** sampling (referenced in historical correspondence as FPC TX **VOE** IN WATER AND WASTEWATER) is equivalent to Test Method 8020A. The method is detailed in Attachment 2 and should provide representative concentrations of non-methane hydrocarbons to comply with the above-referenced permits. This alternative method does not apply to any requirements that may in 40 Code of Federal Regulations Part 60, New Source Performancc Standards (NSI'S), 40 Code of Federal Regulations l'arl 61, National Emission Stanclarcls for Hazardous Air Pollutants (NF.SHAP), or 40 Code of Federal Regulations Part 63, Maximum Achievable Control Technology (MACT) Standards for Ilazarclous A.ir Pollutants.

December 14, 2016

Page 2

Mr. Rick CralJtrcc

Re: AMOC #66

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. You are recommended that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC.

This AMOC approval may supersede certain requirements or representations in Permit Nos. 7699, 19166, 19167, 19168, 19198, 19199, 19200, 19201, 20203, 40157, 76044, 76305, 91780, 107518, 107520, 127838, 128752, HJ\1'10, PSDTX1053, PSDTX1058, PSDTX1222, PSDTX1224, PSDTX1226, PSDTX1232, PSDTX1234, PSDTX1237, PSDTX1238, PSDTX1240, PSDTX1383, PSDTX1384, PSDTX226M7, and PSDTX760M9. To ensure effective and consistent enforceability, we request that Formosa incorporate this AMOC into the permit(s) through submittal of alteration(s) no later than 90 days after this approval, if not already included.

This approval may also change applicable requirements for the site, which are identified in the site operating permits (SOP) 01484, 01951, 01953, 01954, OHJ56, 01957, 01958, 03409, and 03421. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before Issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 219-1276 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.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,



Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 255806

December 14, 2016

Page 5

Mr. Rick Crumby

Re: AMOC#66

Attachment 1 - Summary of Cooling Towers and Authorizations				
Permit Nos.	Type of Process	Plant	EPNs	Previous Approval
19166, HAPIO PSDTX760M9 01951	Inorganic	Utilities Plant	Not identified on MAERT	121211992
1D167, 01153	Inorganic	Caustic Chlorine Plant	Not identified on MAERT (shares with EDC-CT)	1/11/11996
76044, PSDTX1053, 03421	Inorganic	Pel Coke / Coal Fired Generation	CT-1 through CT-12	NIA
19168, PSDTX1226, 01958	Organic Olefins	Olefins I Olefins II Gilli PPU FRACII	1010 1064 8801U FRACII-CT	NIA
107518, PSDTX1383 SOP PENDING	Organic Olefins	Olefins III PDII	OJ.3-CTWII PDTI-CWTR	NIA
19201, PSDTX1232 01957	Organic Polyolefins	HDPEI	PO-CT	1/1111996
40157, PSDTX1222 01957	Organic Polyolefins	HDPE II	PP2-CT	NIA
20201, PSDTX1224 01957	Organic Polyolefins	LLDPE	LL-CT	121211.nnz
107520, PSDTX1384 SOP PENDING	Organic Polyolefins	LOPE	LD-CT	NIA
19200, PSDTX.1237, 01956	Organic Polyolefins	Polypropylene I Plant (PP D)	1'0-C'f PPI-C'L'	1/11/11DUG
91780, PSDTX12'10 01956	Organic Polyolefins	pp lf	PP20CT	NIA
127838 SOP PENDING	Organic Polyolefins	HDPE 3	1'E:H2	NIA
19199, PSDTX1238 0195::J	Organic Other	Ethylene Dichloride (EDC)	2C-CI 2C-C2 EDC-CT	
7699, PSDTX226M7 0195'1	Organic Other	EDC Cracking, VCM, PVC	999 VW-C02 vw-c1-l	1212/1092
19198, PSDTX1234 01484	Organic Other	Ethylene Glycol (EG)	EG-CT	8/11/11DUG
128752 SOP PENDING	Organic Other	EG 2	EG2-CT	NIA
76305, PSDTX1058- - 0340fl	Organic Other	Specially PVC	CT-01	NIA

December 11, 2016
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Mt. Hick Crabtree
Re: AMOC #66

Mt. Wilson
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FIL. **COLUMBIA PICTURES**

December 14, 2016
l'agc 9
Mr. Rick Crabtree

Re: AMOC #GG

LABORATORY STANDARD OPERATING PROCEDURES VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number

POLICIES *

This procedure has been developed to insure adherence to PPG Quality, Environment, Health and Safety Policies, PPG Corporate Total Quality Management Policies, L.S. & O.A. Department Quality Management Plan and L.S. & O.A. Department Quality Assurance Project Plan.

GUIDELINES

Summary

GC
FID

Volatile organic compounds (VOC) are extracted from samples by purge and trap techniques. Stripped sample components are swept to the gas chromatograph inlet where the individual compounds are detected using a flame ionization detector. The resulting peaks are summed and quantitated against external calibration curve constructed using benzene as a standard.

Interferences

Major contaminant peaks are volatile materials in the laboratory and impurities in the inert purging gas. A trip blank prepared from organic-free reagent water and carried through the sampling and handling protocol can serve as a check for any possible contamination of sample.

Safety Considerations

The use of proper gloves, safety glasses, and PPE should be exercised when using reagents. Be careful when working with glassware. Wipe any spills, clean area immediately and dispose of properly. Avoid skin or eye contact, inhalation or ingestion. Do not operate instrument without oil protectively equipment in place.

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Stomg,

- Water sample are collected in 40mL vial with a Teflon-lined septum and an open top lid. Two vials per sampling event must be collected at a minimum per sample point. The septum must be filled in such manner that no air bubbles pass through the sample as the container is being filled. Should bubbles occur, the sample must be poured out and the vial refilled. Seal the vial so that no air bubbles are entrapped in it.

- Due to differing solubility and diffusion properties of gases in liquid matrices at different temperatures, it is possible for the sample to generate some headspace during storage. This headspace will appear in the form of small bubbles, and should not invalidate a sample for volatile analysis.

The presence of a macro-bubble, generally indicates either improper sampling technique or a source of gas evolution within the sample. Studies conducted by the USEPA (EPA-816-C-1, unpublished data) indicate that "por-sized" bubbles (i.e. diameter < 1/4 in.) did not adversely affect volatile data. These bubbles were generally encountered in wastewater samples, which are more susceptible to variations in gas solubility than are groundwater samples.

Revision Date: May 25, 2015
Initial: MEY2.1-WU
File Name: MTC4505_rev3.docx

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Re: AMOC II6Ci

Revision Number: _____

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1/IOs wii" C" -
(80 ppb-120 ppb)

Check instrument function. Correct
if problem and reanalyze.
Perform initial calibration after the third
failure.

Calculations

Deviation (%)

$$D = \frac{|X - T|}{T} \times 100$$

Where, D = percent deviation
X = the observed value for the measurement
T = actual value for the measurement

Precision and Accuracy

Notes

Reporting

- Analytical reporting (101) is 40 ppb (ug/L).
- All verified results must be entered in LIMS and/or the appropriate not-reading log sheet upon completion.
- For the purpose of reporting to the public, only results from LIMS may be used to provide greater than 48 hr delta toappHeabfo M•IOI, ptolinilny result,,from UMS111 y'bo uiedlo ckl•yfn rec,clflfna lhno.

Department: L.S. & Q.A.

Effective Date: May 20, 2010

File Name: ITTC4305_rev5.docx

December 14, 2016

Page 11

Mr. Rick Crabtree

Re: AMOC#66

LABORATORY STANDARD OPERATING PROCEDURES

VOC IN WATER AND WASTEWATER BY TACK-VOC METHOD

4788-2-01-13

9.0 PROCEDURES

Revision Number

9.1 Standard Preparation

9.1.2 Calibration Standards

Fill 40 mL VOA vials with reagent water, taking care not to trap any air in the vial. Add the Calibration Standards (AS-10004) to the vial using a clean micro-syringe and follow the following list to prepare the calibration standards:

	Stock solution
Blank	0.0 mL
20 ppb	0.8 mL
50 ppb	2.0 mL
100 ppb	4.0 mL
250 ppb	10.0 mL
500 ppb	20.0 mL
1000 ppb	40.0 mL

9.1.3 Initial Calibration Verification Standard: Upon receiving the certified benzene standard (e.g. MS02-01-10X), transfer to a 1 mL reaction vial and cap with the Teflon cap. This standard may be good up to 6 months, but should be replaced if ICV follows the 100 ppb VOA vial with reagent water, taking care not to trap any air in the vial. Add 2.0 mL to the vial using a clean micro-syringe for a 100 ppb std.

9.1.4 All standard preparation activities must be logged in the standards logbook.

9.2 Instrument Setup

9.2.1 GC/MS/MS is configured as follows:

Inlet: Gas Helium
Mode: split
Heater: 350 °C
Pressure: 10.0 psi
Total Flow: 10.0 mL/min
Split Ratio: 10:1
Split Flow: 1.0 mL/min

Column: 30 m x 0.25 mm ID
Carrier Gas: Helium
Carrier Pressure: 10.0 psi
Flow: 1.0 mL/min
Average Velocity: 50 cm/sec

Document ID: L-4264 Q.A.

Effective Date: May 25, 2015

Document Code: MTR-4505

File Name: MTR-4505_revA.docx

October 14, 2016

Page 12

Mr. Rick Cmbtrcc

Re: AMOC IIGG

LABORATORY STANDARD OPERATING PROCEDURES VOC IN WATER AND WASTEWATER BY TACB-VOC METHOD

Revision Number: 3

Oven
Setpoint: 50 °C

Oven Maximum: 300 °C
Equilibration: 0.5 min

Oven Ramp	°C/min	Start °C	Hold min	End Time
Initial		50	2.00	2.00
Ramp 1	20.00	250	9.00	11.00
Post Run		50	0	16.00

Unit: 100

Flow
Alt: 100
Mit: 100 (Ho):
Flow: 100

2wc
JP: OL(In)
S0111V(III)
i.s: Oml/mln
(III)

1.2 Purge-and-trap (P&T) system

Purge flow
Purge
Desorb
Bake
Transfer line
Valve
Sample size
Drypurge

35 ml/min
1 L/min at 25 °C
2 ml/min at 180 °C
10 min at 185 °C
100 °C
100 °C
5 min
1 min

3 Re-Calibration

9.3.1 Recalibration is recommended once a year or when raw ICV falls 20% recovery. Prior to re-calibration, GC and sample must be baked out. Raise the GC oven temp to 250 °C and bake for at least 30 min. It is also necessary to cycle the purge-and-trap through one bake cycle to ensure that there are no contaminants present in the trap. After 30 min lower GC temp to 50 °C.

9.3.2 Prepare the calibration standards as outlined in 9.1.2 just prior to analysis. Load the standard vials in the correct slots of the autosampler and prepare following re-calibration sequence in the Method and Run control window of the Chromatation Software. Start this sequence by following steps from 9.4.4 to 9.4.9.

Dep: L.S. & Q.A.

Effective Date: May 25, 2015

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File Name: FTTC1503_rev3.docx

December 14, 016

Page 13

Mt. Rick Crabtree

Re: AMOC#66

LABORATORY STANDARD OPERATING PROCEDURES
VOC IN WATER AND WASTEWATER BY TACH VOC METHOD

Page 7 of 14

Revision Number

Re-calibration sequence:

Line	Vial	Sample Name	Method Name	In/Vial	Sample Type	Cal Level	Update RT	Update RT
1	1	Blank	TACH-VOC	1	Blank	1	Replace	No Update
2	1	24 ppb	TACH-VOC	1	Calibration	1	Replace	No Update
3	1	50 ppb	TACH-VOC	1	Calibration	2	Replace	No Update
4	1	100 ppb	TACH-VOC	1	Calibration	3	Replace	Replace
5	1	250 ppb	TACH-VOC	1	Calibration	4	Replace	No Update
6	1	500 ppb	TACH-VOC	1	Calibration	5	Replace	No Update
7	1	1000 ppb	TACH-VOC	1	Calibration	6	Replace	No Update

9.3.3 In the data analysis window of the ChemStation software, place the chromatogram for the blank (solvent peak). Check to see that there are no contaminant peaks. For some low level analysis, a small peak will show at the beginning of the run. This is due to impurities in the solvent. If a calibration exists, the run time should be less than two times the lower analytical limit for the analysis.

9.3.4 Open the calibration file and check to see if there are only two significant peaks. The first peak will be the solvent or the first peak. The second peak should be sharp with minimum tailing. If there are more than two peaks, the calibration should be rejected and the water is re-analyzed. Correct this condition and begin the calibration again.

9.3.5 Once the calibration file is loaded, the results must be accepted in a linear calibration curve. Display the regression statistics and check that the fit is at least $R^2 = 0.990$. Calculate a new area reject from the calibration curve and use the number value \times amount $\times 10^6$ (the number value is the slope of the calibration curve). The amount is 207. Enter this new area to the integration results table in the value list for the sample.

9.3.6 Calibration should be used to calculate uncalibrated peaks using compound list. The parameters should run all the individual peak areas of chromatogram.

2.4

9.4.1 **Sample Preparation:** A volumetric composition is performed by combining the chilled (4°C) samples collected during a week-long sampling event in a chilled jar that is surrounded by ice. This must be performed quickly to prevent loss of volatile component. The sample is mixed and transferred to 40mL.

Department: J.S. & C.A.

Effective Date: May 23, 2015

Document Code: FTT4303

File Name: FTT4303_rev3.docx

October 14, 2016

Page 11

Mr. Rick Crabtree

Re: AMOC #6(i)

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YOU IN WATER AND WASTE TREATMENT PLANT

Revision Number

Note: The volumetric composite may not reflect the true emissions over a week long period due to fluctuations in flow rate of the stream to be tested.

- 1.2 For grab samples, directly use the vial that the sample was received in.
- 9.4.3 Load the samples in the autosampler racks noting their positions.
- 9.4.4 Bring up the window P & T 6890C (online); Method & Run control by Click Start / Program/ITP Chromstation /Instrument online if it is not opened on the computer monitor.
- 9.4.5 Click Sequence/Load Sequence to load an existing sequence.
- 9.4.6 Click Sequence/Sequence Parameter to change the Subdirectory to today's date.
- 9.4.7 Click Sequence/Sequence Table to edit the sequence at the data station.
Enter the sample information in a sequence file located in the data station. Be sure that the vial positions correspond with vial locations and the correct method is chosen for the analysis.

Following sequence table is an example:

Line	Vial	Sample Name	Method Name	Injection	Sample Type
1	1	MB (Blank)	TACH-VOC	1	Sample
2	1	ICV	TACH-VOC	1	Sample
3	1	OLI CWR 2/5	TACH-VOC	1	Sample
4	1	OLI CWR 2/5	TACH-VOC	1	Sample
5	1	OLI CWR 2/5	TACH-VOC	1	Sample
6	1	OLI CWR 2/5	TACH-VOC	1	Sample
7	1	OLI CWR 2/5	TACH-VOC	1	Sample
8	1	OLI CWR 2/5	TACH-VOC	1	Sample
9	1	OLI CWR 2/5	TACH-VOC	1	Sample
10	1	OLI CWR 2/5	TACH-VOC	1	Sample
11	1	OLI CWR 2/5	TACH-VOC	1	Sample
12	1	OLI CWR 2/5	TACH-VOC	1	Sample
13	1	OLI CWR 2/5	TACH-VOC	1	Sample
14	1	OLI CWR 2/5	TACH-VOC	1	Sample
15	1	OLI CWR 2/5	TACH-VOC	1	Sample
16	1	OLI CWR 2/5	TACH-VOC	1	Sample

Note: Method blank and calibration verification used be run every 10 samples.

- 9.4.8 Press the Sequence button. Now system is ready and waiting for Purge and trap device to start.
- 9.4.9 Purge and trap device preparation:
(1) Press the PL button on the front panel, the window will show: L551 start; end;
(2) Set the start and end positions that need match with actual sample position and run sequence, use
the ON button and OFF button to switch between start and end, then use keypad to key in
position number.

Dep. Chief, I.S. & Q.A.

Effective Date: May 25, 2015

Document Code: FTTC4505

File Name: FTTC4505_rev5.docx

File Name: PTT01503_1975.docx

December 14, 2016

Page 1G

Mr. Rick Crabtree

Re: AMOC #6C-i

LABORATORY STANDARD OPERATING PROCEDURES
VOC IN WATER AND WASTEWATER BY TAGB-VOC METHOD

Revision Number

TABLE 1. Examples of sample dilution

Add the required amount of high concentration sample to a 50 mL volumetric flask, and then bring level to exact 50 mL with organic-free reagent water.

Dilution factor	High concentration sample	Total volume
30000	1.67 µL	50 mL
20000	2.5 µL	50 mL
10000	5 µL	50 mL
5000	10 µL	50 mL
4000	12.5 µL	50 mL
3000	16.7 µL	50 mL
2000	25 µL	50 mL
1000	50 µL	50 mL
500	100 µL	50 mL
400	125 µL	50 mL
300	167 µL	50 mL
200	250 µL	50 mL
100	500 µL	50 mL
50	1000 µL	50 mL
20	2500 µL	50 mL
10	5000 µL	50 mL
5	10000 µL	50 mL

0	1.25 mL	50 mL
0	1.67 mL	50 mL
10	2.5 mL	50 mL
20	5.0 mL	50 mL
50	12.5 mL	50 mL
100	25.0 mL	50 mL

Figure 1: Sample Chromatogram
Calibration Standard Run

Don't forget L.S. & Q.A.

Effective Date: May 23, 2015

File Name: JPTC4305_rev5.docx

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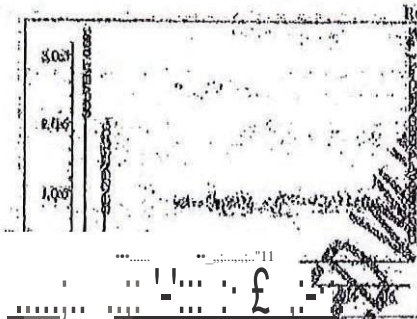
December 14, 2016

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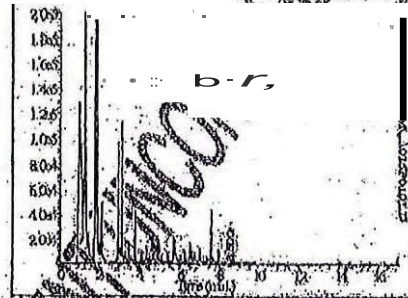
Mr. !tick Cm.htrec

Re: AMOC #66

LABORATORY STANDARD OPERATING PROCEDURES
Page 11 of 14
VOC IN WATER AND WASTEWATER BY TAC-VOC METHOD



s, plo..Rtm



,i\Un"Jim111 prf NRCVA Approval Letter

"rh!!Mlt t is a copy of the approval letter from the TNRC.

Bryan W. Shaw, Ph.D., P.E., *Chair*
Toby Baker, *Co*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

July 7, 2015

MR RICK CRABTREE
ASSISTANT GENERAL MANAGER
FORMOSA PLASTICS CORPORATION, TEXAS
201 FORMOSA DRIVE
P.O. BOX 700
POINT COMFORT, TX 77978

Re: Compliance Extension and Test Waivers Request
Alternate Means of Compliance (AMOC) Project #27
Specialty Polyvinyl Chloride (SPVC) Unit
Regulated Entity Number: 100218973
Customer Reference Number: 600130017
Affected Permits: 76305, PSDTX1058, O-3409

Dear Mr. Crabtree:

This correspondence is in response to Formosa Plastics Corporation, Texas' (Formosa) compliance extension request and performance test waivers dated December 18, 2014 and May 18, 2015 for affected facilities at the specialty polyvinyl chloride (SPVC) unit which are subject to Title 40 Code of Federal Regulations Part 63 (40 CFR 63), Subpart HHHHHHHH (commonly known as the PVC MACT). We understand that Formosa is requesting a compliance extension for the non-vinyl chloride total organic HAP (non VC TOHAP) waste, water limit due to the use of vinyl acetate monomer (VAM), a raw material used in PVC copolymer production within its SPVC production process.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your compliance extension request. The TCEQ has been delegated authority to enforce the above cited standards in 40 CFR 63. The initial performance testing and compliance demonstrations are delayed for 1 year beyond the dates specified in §63.11875(a) and §63.11900(a) or October 14, 2016. If, before that date, EPA takes final action to revise the PVC MACT standard as applicable to the PVC units referenced above, Formosa will be required to comply with the revised standards following any and all applicable deadlines. If EPA has not completed their reconsideration of the PVC MACT by that date, Formosa will need to submit a request for an additional extension.

By copy of this letter, we are informing the U. S. Environmental Protection Agency (EPA), Region 6 of this decision.

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This action may supersede certain requirements in Permit Nos. 76305 and PSDTX1058. To ensure effective and consistent enforceability, we request that Formosa incorporate this action into the permits through alterations no later than 90 days after this extension approval.

This action also changes applicable requirements for the site and in accordance with §63.6(i)(4)(i)(A), Formosa must "apply to have the source's title V permit revised to incorporate the conditions of the extension of compliance". The TCEQ recommends submittal of complete SOP Administrative Revisions for O-3409 as soon as possible. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete revision application is submitted to the TCEQ and this information is maintained with the SOP Permit records at the site.

This action is taken under authority delegated by the Executive Director of the TCEQ. If you have any questions, please call Anne Inman, P.E. at (512) 239-1276, 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.

Sincerely,

A stylized signature of Mike Wilson, consisting of a large, bold, italicized 'M' followed by a large, bold, italicized 'W'.

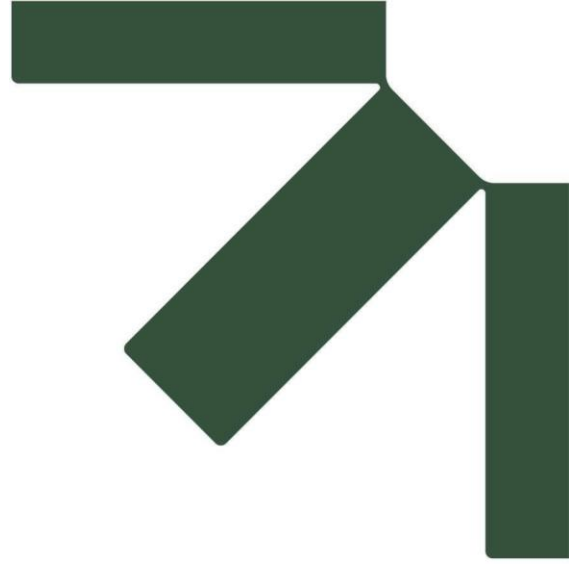
Mike Wilson, P.E., Director
Air Permits Division
Texas Commission on Environmental Quality

cc: Mr. Mark Hansen, Acting Associate Director Air Programs, US EPA Region 6 (6PD-A)

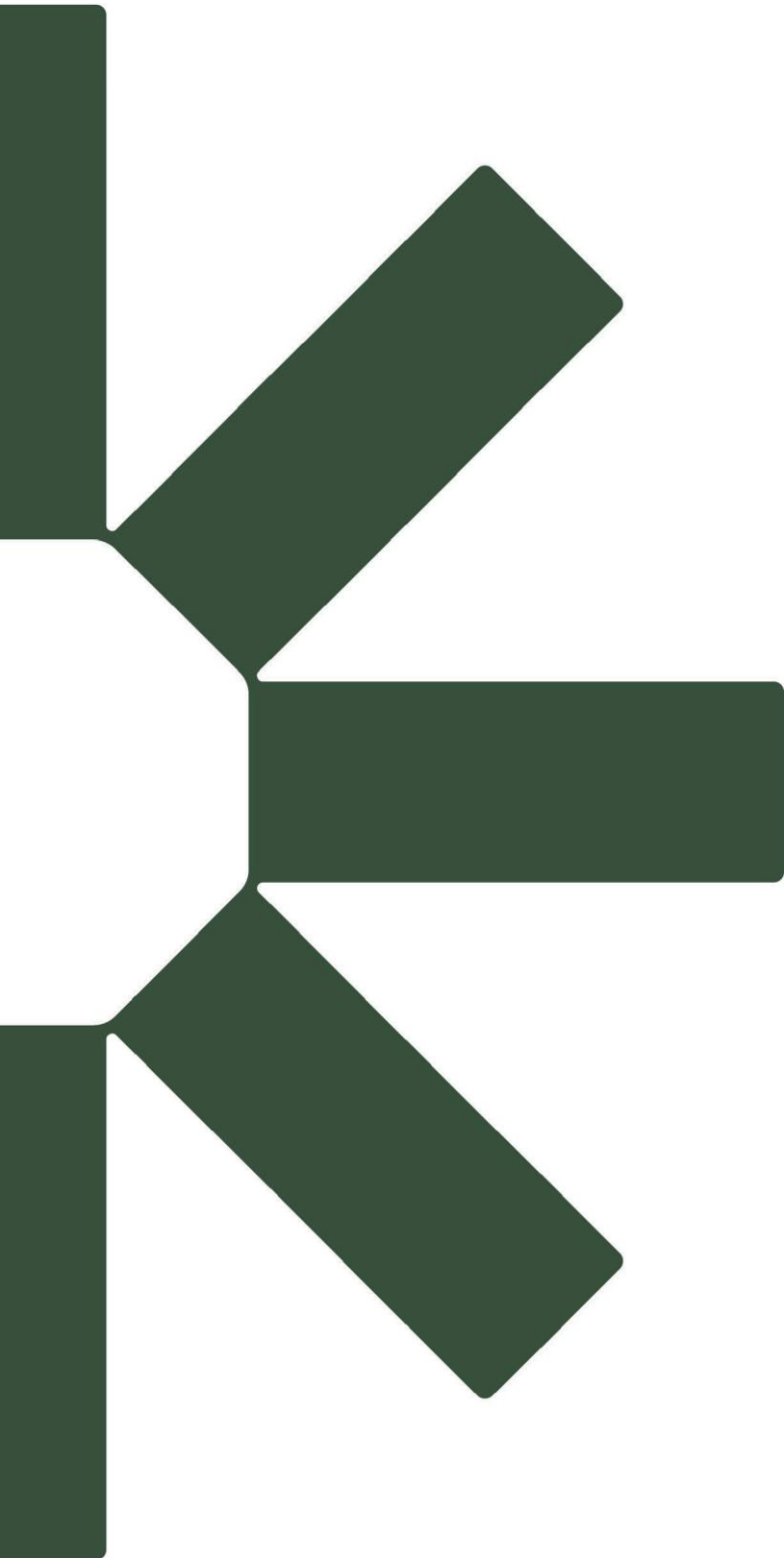
Project No.: 237667

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bee: Kelly Rubble, Air Section Manager, Region 14 - Corpus Christi
Rebecca Partee, Manager, Chemical Section, Air Permits Division, OA: MC-163
Jesse Chacon, Manager, Operating Permits Section, Air Permits Division, OA: MC-163



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