FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Diamond Shamrock Refining Company, L.P.

AUTHORIZING THE OPERATION OF

Valero McKee Refinery
Petroleum Refining

LOCATED AT

Moore County, Texas

Latitude 35° 57' 6" Longitude 101° 52' 24"

Regulated Entity Number: RN100210517

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: O1555 Issuance Date: October 3, 2013

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 CC, UUU, EEEE, ZZZZ, and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.340, § 113.780, § 113.880, § 113.1090, and § 113.1130 respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

F. Per Diamond Shamrock Refining Company, L.P.'s §114 Consent Decree (Civil Action No. SA 05 CA 0569), the permit holder shall accept applicability and comply with the applicable requirements of 40 CFR Part 60, Subpart J for the following boilers (B 4, B 5, B 6, B 8, B 9, B 10, and B 11) and heaters (H 1, H 9, and H 11) according to dates and schedules established between the permit holder and the EPA. The permit holder shall submit revision applications to codify the requirements in the permit no later than the established date.

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. 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.

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

C. 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)

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

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

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

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

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

4. 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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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(e)(1) (relating to Standards: General)

C. Title 40 CFR § 61.342(e)(2)(i) - (ii) (relating to Standards: General)

D. Title 40 CFR § 61.342(f)(1), and (2) (relating to Standards: General)

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

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

G. 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)

H. Title 40 CFR § 61.355(k)(1) - (6), and (7)(i) - (iv) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures

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

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

K. Title 40 CFR § 61.356(b)(4) (relating to Recordkeeping Requirements)

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

M. Title 40 CFR § 61.356(c) (relating to Recordkeeping Requirements)

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

O. Title 40 CFR § 61.357(d)(5) (relating to Reporting Requirements)

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

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

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

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

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

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

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

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

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

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

10. 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.

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

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

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

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

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

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

   F. Group 1 process wastewater streams not managed in a wastewater management unit subject to 40 CFR Part 63, Subpart G shall comply with 40 CFR Part 61, Subpart FF as specified in 40 CFR §§ 63.647(a) - (c) and 63.655(a)

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

13. For containers managing remediation materials subject to 40 CFR Part 63, Subpart GGGGG, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference):

A. Title 40 CFR § 63.923(b)(1) - (3), (c), (d), (d)(1) - (5), (e), and (f), (f)(1) - (4) (relating to Standards - Container Level 2 Controls)

B. Title 40 CFR § 63.925(a)(1) - (8), and (b)(1) - (3) (relating to Test Methods and Procedures)

C. Title 40 CFR § 63.926(a)(1) - (3) (relating to Inspection and Monitoring Requirements)

D. Title 40 CFR § 63.7901(b) and (b)(1), for initial demonstration of compliance

E. Title 40 CFR § 63.7901(d), and (d)(1) - (4), for initial demonstration of compliance

F. Title 40 CFR § 63.7903(b) and (b)(1), for continuous demonstration of compliance

G. Title 40 CFR § 63.7903(d)(5), (d)(5)(i), and (d)(5)(ii), for continuous demonstration of compliance

H. Title 40 CFR § 63.7952(c), for recordkeeping

Additional Monitoring Requirements

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

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

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

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

be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

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

E. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:

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

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

F. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any capture system associated with the VOC control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions:

(i) Once a year the permit holder shall inspect the capture system in compliance of CAM for leaks 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 ppm above background or as defined by the underlying applicable requirement; or

(ii) Once a month, the permit holder shall conduct a visual, audible, and/or olfactory inspection of the capture system in compliance of CAM to detect leaking components.

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

15. 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 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

16. 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

17. 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.

18. 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, material safety data sheets (MSDS), 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.

A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.

B. 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).

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

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

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

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

Compliance Requirements

20. 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.

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

22. 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

Risk Management Plan

23. 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

24. 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 40 CFR Part 82, Subpart F related to the disposal requirements for appliances using Class I or Class II

(ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.

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

Permit Location

25. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Schedules

Applicable Requirements Summary

Unit Summary 16

Applicable Requirements Summary 38

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
GRP-TK15	ASPHALT OPERATIONS	S-137, S-138	60UU-01	40 CFR Part 60, Subpart UU	No changing attributes.
GRP-TK8	ASPHALT OPERATIONS	S-220, S-221, S-222, S-223	60UU-01	40 CFR Part 60, Subpart UU	No changing attributes.
S-177	ASPHALT OPERATIONS	N/A	60UU-01	40 CFR Part 60, Subpart UU	No changing attributes.
S-194	ASPHALT OPERATIONS	N/A	60UU-01	40 CFR Part 60, Subpart UU	No changing attributes.
B-22	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-01	40 CFR Part 60, Subpart Db	No changing attributes.
B-22	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-BOILER1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-10, B-11, B-8, B-9	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
GRP-BOILER1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-10, B-11, B-8, B-9	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-BOILER2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-4, B-5, B-6, B-7	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
GRP-BOILER2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-4, B-5, B-6, B-7	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-HTR-FG	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	H-13, H-14, H-15, H-18, H-26, H-27, H-28, H-34, H-36, H-37, H-38, H-39, H-40, H-42, H-43, H-45, H-46, H-48, H-6, H-64, H-8, H-80, H-88	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-HTR-FG2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	H-1, H-11, H-9	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
H-2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
FL-1	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
FL-3	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
FL-4	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
FL-6	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FL-8	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
GRP-CAS	CLOSED VENT SYSTEM AND CONTROL DEVICE	CAS1, CAS2, CAS3, CAS4, CAS5, CAS6, CAS7	61FF-02	40 CFR Part 61, Subpart FF	No changing attributes.
VT-15	DISTILLATION OPERATIONS	N/A	60NNN-01	40 CFR Part 60, Subpart NNN	No changing attributes.
GRP-VT-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VT-1, VT-13, VT-22	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-VT-2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VT-2, VT-8	63CC-02	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-VT-20	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	B-12, H-15, H-18, H-24, H-26, H-27, H-28, H-31A, H-31B, H-32, H-32C, H-33, H-34, H-35, H-36, H-37, H-38, H-39, H-4, H-40, H-42, H-43, H-45, H-46, H-48, H-51, H-52, V-13, V-14, V-15, V-16, V-18, V-21, V-29, V-30, V-5	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-VT-3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VT-30, VT-41	63CC-05	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-VT-30	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	B-10, B-11, B-4, B-5, B-6, B-8, B-9, H-1, H-11, H-13, H-14, H-17, H-2, H-22, H-29, H-30, H-5, H-55, H-56, H-8, H-9	R1111-02	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-VT-4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VT-34, VT-35, VT-36, VT-38, VT-9	63CC-04	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-VT-5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VT-24, VT-25, VT-26, VT-27, VT-28, VT-29, VT-31, VT-32, VT-33, VT-37, VT-39, VT-40, VT-5	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
H-41	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-02	30 TAC Chapter 111, Visible Emissions	No changing attributes.
V-20	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
VT-11	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63CC-02	40 CFR Part 63, Subpart CC	No changing attributes.
VT-15	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63CC-03	40 CFR Part 63, Subpart CC	No changing attributes.
VT-23	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
B-12	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
B-13	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
B-22	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-02	40 CFR Part 60, Subpart Ja	No changing attributes.
FL-1	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
FL-3	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
FL-4	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
FL-6	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FL-7	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
FL-8	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
GRP-HTR-FG	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	H-13, H-14, H-15, H-18, H-26, H-27, H-28, H-34, H-36, H-37, H-38, H-39, H-40, H-42, H-43, H-45, H-46, H-48, H-6, H-64, H-8, H-80, H-88	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
GRP-HTR-FG2	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	H-1, H-11, H-9	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
H-2	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
H-2	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-02	40 CFR Part 60, Subpart Ja	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
H-41	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
V-16	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
V-16	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-01	40 CFR Part 60, Subpart Ja	No changing attributes.
V-16	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-006	40 CFR Part 63, Subpart UUU	No changing attributes.
V-18	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-003	40 CFR Part 63, Subpart UUU	CRU TOC Emission Limitation = Vent emissions of TOC to a flare (Option 1)., CRU TOC Control Device = Control device, other than a flare, thermal incinerator, process heater or boiler, approved under §63.1573(d)., CRU Engineering Assessment = Demonstrating compliance by performance test.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
V-18	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-004	40 CFR Part 63, Subpart UUU	CRU TOC Emission Limitation = Reduce uncontrolled emissions of TOC or nonmethane TOC by 98% by weight or to a concentration of 20 ppmv (Option 2)., CRU TOC Control Device = Process Heater with a design heat input capacity < 44 MW or in which all vent streams not introduced into the flame zone., CRU Engineering Assessment = Choosing to perform an engineering assessment for CRUs according to the requirements of §63.1571(c).
V-20	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
V-20	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-001	40 CFR Part 63, Subpart UUU	Metal HAP
V-20	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-002	40 CFR Part 63, Subpart UUU	Organic HAP

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
V-21	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-003	40 CFR Part 63, Subpart UUU	Control Device = FL-3 Organic HAP
V-21	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-004a	40 CFR Part 63, Subpart UUU	Control Device = FL-4 Inorganic HAP - No. 2 Reformer
V-5	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-01	40 CFR Part 60, Subpart J	No changing attributes.
V-5	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-01	40 CFR Part 60, Subpart Ja	No changing attributes.
V-5	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-005a	40 CFR Part 63, Subpart UUU	No changing attributes.
FL-1	FLARES	N/A	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FL-1	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
FL-1	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FL-3	FLARES	N/A	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FL-3	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
FL-3	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.
FL-4	FLARES	N/A	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FL-4	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
FL-4	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.
FL-6	FLARES	N/A	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FL-6	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
FL-6	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.
FL-8	FLARES	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FL-8	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
F-MSAT	FUGITIVE EMISSION UNITS	N/A	63CCVV-ALL	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
F-MSATLOAD	FUGITIVE EMISSION UNITS	N/A	63CCVV-ALL	40 CFR Part 63, Subpart CC	No changing attributes.
FUG-CC-VV	FUGITIVE EMISSION UNITS	N/A	63CCVV-1	40 CFR Part 63, Subpart CC	No changing attributes.
FUG-GGGA	FUGITIVE EMISSION UNITS	N/A	60GGGA-01	40 CFR Part 60, Subpart GGGa	No changing attributes.
FUG-LPG	FUGITIVE EMISSION UNITS	N/A	60GGG-1	40 CFR Part 60, Subpart GGG	No changing attributes.
GRP-COMP1	FUGITIVE EMISSION UNITS	1HTC1, 1REFC1, 2HTC1, 4HTC1, 4HTC2, HCUC1, HCUC2, HCUC3, HCUC4, HDSC1, HDSC2, HDSC3, PENEXC1, PENEXC2, PENEXC3, UNIC1	63CCVV-2	40 CFR Part 63, Subpart CC	No changing attributes.
V-16	GAS SWEETENING/ SULFUR RECOVERY UNITS	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
V-5	GAS SWEETENING/ SULFUR RECOVERY UNITS	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
L-11	LOADING/ UNLOADING OPERATIONS	N/A	63CC-GASLDG	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
L-15	LOADING/ UNLOADING OPERATIONS	N/A	61BB	40 CFR Part 61, Subpart BB	No changing attributes.
E-7	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPMP-1	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPMP-2	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPMP-3	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPMP-4	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
OLYMP-BLRHS	SRIC ENGINES	N/A	63ZZZZ-03	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
OLYMP-MNOFC	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
OLYMP-MNOFC	SRIC ENGINES	N/A	63ZZZZ-04	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
SUBSTN 32	SRIC ENGINES	N/A	63ZZZZ-02	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-TK1	STORAGE TANKS/VESSELS	S-002, S-003, S-004, S-005, S-008, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-022	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK10	STORAGE TANKS/VESSELS	S-195, S-196	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK10	STORAGE TANKS/VESSELS	S-195, S-196	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
GRP-TK10	STORAGE TANKS/VESSELS	S-195, S-196	63EEEE-1	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP-TK11	STORAGE TANKS/VESSELS	S-031, S-192, S-203, S-211, S-212, S-213, S-219	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK12	STORAGE TANKS/VESSELS	S-209, S-210	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK12	STORAGE TANKS/VESSELS	S-209, S-210	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK13	STORAGE TANKS/VESSELS	S-059, S-060, S-065, S-066, S-067, S-075, S-076	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK16	STORAGE TANKS/VESSELS	S-197, S-199	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK16	STORAGE TANKS/VESSELS	S-197, S-199	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-TK16	STORAGE TANKS/VESSELS	S-197, S-199	63EEEE-1	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP-TK18	STORAGE TANKS/VESSELS	S-001, S-009, S-021	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK19	STORAGE TANKS/VESSELS	S-230, S-231	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK19	STORAGE TANKS/VESSELS	S-230, S-231	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK2	STORAGE TANKS/VESSELS	S-007, S-010, S-020, S-024, S-025, S-027, S-028, S-035, S-039, S-040, S-042, S-043, S-046, S-052, S-053, S-056, S-095, S-139, S-141	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK20	STORAGE TANKS/VESSELS	S-235, S-236, S-237	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK20	STORAGE TANKS/VESSELS	S-235, S-236, S-237	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK6	STORAGE TANKS/VESSELS	S-026, S-032, S-140	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK7	STORAGE TANKS/VESSELS	S-037, S-038, S-045, S-055, S-057, S-058, S-086	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-TK9	STORAGE TANKS/VESSELS	S-202, S-214, S-215, S-216, S-217, S-218	KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP-TK9	STORAGE TANKS/VESSELS	S-202, S-214, S-215, S-216, S-217, S-218	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-WW	STORAGE TANKS/VESSELS	S-198, WW1, WW10, WW14, WW2, WW3, WW5, WW7, WW8, WW9	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
S-006	STORAGE TANKS/VESSELS	N/A	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-006	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-018	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	GROUP 1 STORAGE VESSEL = The storage vessel is a Group 2 vessel., APPLICABILITY = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-018	STORAGE TANKS/VESSELS	N/A	63CC-02	40 CFR Part 63, Subpart CC	EXISTING SOURCE = The storage vessel is at an existing source., TRUE VAPOR PRESSURE = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa), EMISSION CONTROL TYPE = External floating roof, SEAL TYPE = Two seals, one above the other, the primary seal being a metallic shoe seal, GROUP 1 STORAGE VESSEL = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641)
S-019	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	GROUP 1 STORAGE VESSEL = The storage vessel is a Group 2 vessel., APPLICABILITY = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-019	STORAGE TANKS/VESSELS	N/A	63CC-02	40 CFR Part 63, Subpart CC	EXISTING SOURCE = The storage vessel is at an existing source., TRUE VAPOR PRESSURE = Maximum true vapor pressure of the total organic HAPs in the liquid is less than 11.11 psi (76.6 kPa), EMISSION CONTROL TYPE = External floating roof, SEAL TYPE = Two seals, one above the other, the primary seal being a metallic shoe seal, GROUP 1 STORAGE VESSEL = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641)
S-023	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	GROUP 1 STORAGE VESSEL = The storage vessel is a Group 2 vessel., APPLICABILITY = The storage vessel is required to comply with 40 CFR Part 63, Subpart CC and is part of a process unit.
S-023	STORAGE TANKS/VESSELS	N/A	63CC-02	40 CFR Part 63, Subpart CC	GROUP 1 STORAGE VESSEL = The storage vessel is a Group 1 storage vessel (as defined in 40 CFR § 63.641)
S-033	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-090	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-143	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-144	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-150	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-176	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-177	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-183	STORAGE TANKS/VESSELS	N/A	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-183	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-184	STORAGE TANKS/VESSELS	N/A	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-184	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-186	STORAGE TANKS/VESSELS	N/A	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-186	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S-187	STORAGE TANKS/VESSELS	N/A	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-187	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-194	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-200	STORAGE TANKS/VESSELS	N/A	60KB-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-200	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-204	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-227	STORAGE TANKS/VESSELS	N/A	60KB-02	40 CFR Part 60, Subpart Kb	No changing attributes.
S-227	STORAGE TANKS/VESSELS	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
S-227	STORAGE TANKS/VESSELS	N/A	63EEEE-1	40 CFR Part 63, Subpart EEEE	No changing attributes.
S-228	STORAGE TANKS/VESSELS	N/A	60KB-02	40 CFR Part 60, Subpart Kb	No changing attributes.
S-228	STORAGE TANKS/VESSELS	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
S-229	STORAGE TANKS/VESSELS	N/A	60Kb	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
S-229	STORAGE TANKS/VESSELS	N/A	63CC	40 CFR Part 63, Subpart CC	No changing attributes.
S-232	STORAGE TANKS/VESSELS	N/A	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-232	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
S-233	STORAGE TANKS/VESSELS	N/A	60Kb-01	40 CFR Part 60, Subpart Kb	No changing attributes.
S-233	STORAGE TANKS/VESSELS	N/A	63CC-01	40 CFR Part 63, Subpart CC	No changing attributes.
PROACID1	SULFURIC ACID PRODUCTION	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PROACID1	SULFURIC ACID PRODUCTION	N/A	60H-01	40 CFR Part 60, Subpart H	No changing attributes.
PROACID2	SULFURIC ACID PRODUCTION	N/A	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PROACID2	SULFURIC ACID PRODUCTION	N/A	60H-01	40 CFR Part 60, Subpart H	No changing attributes.
PROFFTRMT	TREATMENT PROCESS	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.
WW12	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	61FF-01	40 CFR Part 61, Subpart FF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
WW13	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	61FF-01	40 CFR Part 61, Subpart FF	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)
GRP-TK15	EU	60UU-01	PM (OPACITY)	40 CFR Part 60, Subpart UU	§ 60.472(c)	Within 60 days of maximum production rate, but not later than 180 days after initial startup, asphalt storage tank exhaust gases shall not discharge opacity > 0%, except as specified.	§ 60.474(b) § 60.474(c)(5) ** See Periodic Monitoring Summary	None	None
GRP-TK8	EU	60UU-01	PM (OPACITY)	40 CFR Part 60, Subpart UU	§ 60.472(c)	Within 60 days of maximum production rate, but not later than 180 days after initial startup, asphalt storage tank exhaust gases shall not discharge opacity > 0%, except as specified.	§ 60.474(b) § 60.474(c)(5) ** See Periodic Monitoring Summary	None	None
S-177	EU	60UU-01	PM (OPACITY)	40 CFR Part 60, Subpart UU	§ 60.472(c)	Within 60 days of maximum production rate, but not later than 180 days after initial startup, asphalt storage tank exhaust gases shall not discharge opacity > 0%, except as specified.	§ 60.474(b) § 60.474(c)(5) ** See Periodic Monitoring Summary	None	None
S-194	EU	60UU-01	PM (OPACITY)	40 CFR Part 60, Subpart UU	§ 60.472(c)	Within 60 days of maximum production rate, but not later than 180 days after initial startup, asphalt storage tank exhaust gases shall not discharge opacity > 0%, except as specified.	§ 60.474(b) § 60.474(c)(5) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
B-22	EU	60Db-01	SO_2	40 CFR Part 60, Subpart Db	§ 60.42b(k)(2)	Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO2 emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO2 emissions limit in §60.42b(k)(1).	§ 60.47b(f)	§ 60.45b(k) § 60.49b(o) § 60.49b(r) [G]§ 60.49b(r)(2)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(r) [G]§ 60.49b(r)(2)
B-22	EU	60Db-01	PM (OPACITY)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
B-22	EU	60Db-01	NO_X	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
B-22	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
GRP-BOILER1	EU	60J-01	SO2	40 CFR Part 60, Subpart J	See Special Term and Condition 1.F.	The permit holder shall comply with 40 CFR Part 60, Subpart J by complying with applicable portions of the Consent Decree.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.
GRP-BOILER1	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
GRP-BOILER2	EU	60J-01	SO2	40 CFR Part 60, Subpart J	See Special Term and Condition 1.F.	The permit holder shall comply with 40 CFR Part 60, Subpart J by complying with applicable portions of the Consent Decree.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILER2	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
GRP-HTR-FG	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
GRP-HTR-FG2	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
H-2	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
FL-1	CD	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 60.18 § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) § 61.354(c)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 60.18(f)(2) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) ** See CAM Summary	§ 61.354(c) § 61.354(c)(3) § 61.356(f) § 61.356(f)(1) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)
FL-3	CD	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 60.18 § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) § 61.354(c)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 60.18(f)(2) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) ** See CAM Summary	§ 61.354(c) § 61.354(c)(3) § 61.356(f) § 61.356(f)(1) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FL-4	CD	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 60.18 § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) § 61.354(c)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 60.18(f)(2) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) ** See CAM Summary	§ 61.354(c) § 61.354(c)(3) § 61.356(f) § 61.356(f)(1) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)
FL-6	CD	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 60.18 § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) § 61.354(c)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 60.18(f)(2) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) ** See CAM Summary	§ 61.354(c) § 61.354(c)(3) § 61.356(f) § 61.356(f)(1) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)
FL-8	CD	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 60.18 § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) § 61.354(c)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 60.18(f)(2) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) ** See CAM Summary	§ 61.354(c) § 61.354(c)(3) § 61.356(f) § 61.356(f)(1) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-CAS	CD	61FF-02	BENZENE	40 CFR Part 61, Subpart FF	§ 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(ii) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device.	§ 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(d) [G]§ 61.355(h)	§ 61.356(f) § 61.356(f)(1) § 61.356(f)(2) § 61.356(f)(2)(i) § 61.356(f)(2)(i)(G) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(10) § 61.356(j)(2) § 61.356(j)(3)	None
VT-15	EP	60NNN-01	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(b) § 60.18	Each affected facility shall combust the emissions in a flare that meets the requirements of § 60.18.	§ 60.663(b) § 60.663(b)(1) § 60.663(b)(2) § 60.664(a) § 60.664(d) § 60.664(e) § 60.664(e)(1)(i) [G]§ 60.664(e)(2) § 60.664(e)(3) § 60.664(e)(4) § 60.664(e)(5) § 60.664(e)(6)	§ 60.663(b)(2) § 60.665(b) § 60.665(b)(3) § 60.665(d) § 60.665(f)	§ 60.665(a) § 60.665(b) § 60.665(b)(3) § 60.665(k) § 60.665(l) § 60.665(l)(2) § 60.665(l)(4)
GRP-VT-1	EP	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(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)
GRP-VT-2	EP	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(1)	All miscellaneous process vents from petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	[G]§ 63.645(g) § 63.645(h) § 63.645(h)(1) § 63.645(h)(2)	§ 63.655(g)(7)(ii) § 63.655(i)(5)	§ 63.645(h)(2) § 63.655(f) § 63.655(f)(1)(ii) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i)
GRP-VT-20	EP	R1111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-VT-3	EP	63CC-05	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(1)
GRP-VT-30	EP	R1111-02	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-VT-4	EP	63CC-04	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(1)
GRP-VT-5	EP	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(1)
H-41	EP	R1111-02	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-20	EP	R1111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
VT-11	EP	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(1)	All miscellaneous process vents from petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	[G]§ 63.645(g) § 63.645(h) § 63.645(h)(1) § 63.645(h)(2)	§ 63.655(g)(7)(ii) § 63.655(i)(5)	§ 63.645(h)(2) § 63.655(f) § 63.655(f)(1)(ii) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i)
VT-15	EP	63CC-03	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(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)
VT-23	EP	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.643(a) § 63.11(b) § 63.643(a)(1)	The owner or operator of a Group 1 miscellaneous process vent as defined in §63.641 shall comply with the requirements of either §63.643(a)(1)-(2).	§ 63.116(a)(2) § 63.116(a)(3) § 63.644(a) § 63.644(a)(2) § 63.644(e) § 63.645(a) § 63.645(i)	§ 63.642(e) § 63.655(h)(1) § 63.655(i)(5)	§ 63.642(f) [G]§ 63.655(e) § 63.655(f) § 63.655(f)(1)(ii) [G]§ 63.655(f)(1)(iv) [G]§ 63.655(f)(2) § 63.655(f)(4) § 63.655(g) § 63.655(g)(6) § 63.655(h) § 63.655(h)(1)
B-12	EU	60J-01	HYDROGEN SULFIDE	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.104 § 60.104(a)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
B-13	EU	60J-01	HYDROGEN SULFIDE	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.104 § 60.104(a)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)
B-22	EU	60Ja-02	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	§ 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) § 60.107a(f) § 60.107a(f)(2)	§ 60.108a(a) § 60.108a(c) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FL-1	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.102a(g)(3) § 60.102a(h) § 60.102a(i) [G]§ 60.103a(a) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) [G]§ 60.107a(d) [G]§ 60.107a(e) § 60.107a(f) § 60.107a(f)(2) § 60.107a(f)(4)	§ 60.108a(a) § 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)
FL-3	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.102a(g)(3) § 60.102a(h) § 60.102a(i) [G]§ 60.103a(a) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) [G]§ 60.107a(d) [G]§ 60.107a(e) § 60.107a(f) § 60.107a(f)(2) § 60.107a(f)(4)	§ 60.108a(a) § 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(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)
FL-4	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.102a(g)(3) § 60.102a(h) § 60.102a(i) [G]§ 60.103a(a) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) [G]§ 60.107a(d) [G]§ 60.107a(e) § 60.107a(f) § 60.107a(f)(2) § 60.107a(f)(4)	§ 60.108a(a) § 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)
FL-6	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.102a(g)(3) § 60.102a(h) § 60.102a(i) [G]§ 60.103a(a) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) [G]§ 60.107a(d) [G]§ 60.107a(e) § 60.107a(f) § 60.107a(f)(2) § 60.107a(f)(4)	§ 60.108a(a) § 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(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)
FL-7	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	§ 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) § 60.107a(f) § 60.107a(f)(2)	§ 60.108a(a) § 60.108a(c) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)
FL-8	EU	60Ja-1	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.102a(g)(3) § 60.102a(h) § 60.102a(i) [G]§ 60.103a(a) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	[G]§ 60.103a(a) § 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) [G]§ 60.107a(d) [G]§ 60.107a(e) § 60.107a(f) § 60.107a(f)(2) § 60.107a(f)(4)	§ 60.108a(a) § 60.108a(c) § 60.108a(c)(1) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(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)
GRP-HTR-FG	EU	60J-01	HYDROGEN SULFIDE	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.104 § 60.104(a)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)
GRP-HTR-FG2	EU	60J-01	SO2	40 CFR Part 60, Subpart J	See Special Term and Condition 1.F.	The permit holder shall comply with 40 CFR Part 60, Subpart J by complying with applicable portions of the Consent Decree.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.	See Special Term and Condition 1.F.

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
H-2	EU	60J-01	HYDROGEN SULFIDE	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.104 § 60.104(a)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)
H-2	EU	60Ja-02	HYDROGEN SULFIDE	40 CFR Part 60, Subpart Ja	§ 60.102a(g)(1)(ii) § 60.102a(a) § 60.102a(g) § 60.102a(g)(1) § 60.103a(b)	For each fuel gas combustion device the owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.	§ 60.104a(a) § 60.104a(c) § 60.104a(i) § 60.104a(i)(1) § 60.104a(i)(2) § 60.104a(i)(3) [G]§ 60.104a(i)(4) [G]§ 60.104a(j) § 60.107a(a) [G]§ 60.107a(a)(2) § 60.107a(f) § 60.107a(f)(2)	§ 60.108a(a) § 60.108a(c) [G]§ 60.108a(c)(6) [G]§ 60.108a(d)	§ 60.108a(a) § 60.108a(b) [G]§ 60.108a(d)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
H-41	EU	60J-01	HYDROGEN SULFIDE	40 CFR Part 60, Subpart J	§ 60.104(a)(1) § 60.104 § 60.104(a)	No owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii) § 60.105(e) § 60.105(e)(3)(ii) § 60.106(a) [G]§ 60.106(e)(1)	§ 60.105(a) § 60.105(a)(4) § 60.105(a)(4)(i) § 60.105(a)(4)(ii) § 60.105(a)(4)(iii)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(f) § 60.107(g)
V-16	PRO	60J-01	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i) § 60.104 § 60.104(a) § 60.104(a)(2)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge from any Claus sulfur recovery plant with an oxidation control system or a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume (dry basis) of sulfur dioxide at zero percent excess air into the atmosphere.	§ 60.105(a) [G]§ 60.105(a)(5) § 60.105(e) § 60.105(e)(4)(i) § 60.106(a) [G]§ 60.106(f) ** See CAM Summary	§ 60.105(a) [G]§ 60.105(a)(5)	§ 60.105(e) § 60.105(e)(4)(i) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-16	EU	60Ja-01	SO2	40 CFR Part 60, Subpart Ja	§ 60.102a(f)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja
V-16	EU	63UUU-006	SO_2	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)-Table29.1.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table30.1 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) § 63.1568(b)(5)-Table33.1.a § 63.1568(c)(1) § 63.1568(c)(1)-Table35.1 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing Claus SRU part of a sulfur recovery plant of 20 long tons per day or more and subject to NSPS for sulfur oxides in 40 CFR §60.104(a)(2), you must meet the emission limit for each process vent of 250ppmv (dry basis) of sulfur dioxide (SO2) at zero percent excess air if you use an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1572(a)(1)-Table40.4 § 63.1572(a)(1)-Table40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table31.1.a § 63.1568(c)(1)-Table34.1.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-18	EU	63UUU-003	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(ii)-Table36.2 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table38.1.b § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	If you elect to use a manual lock system (Option 2), you must install a car-seal or lock-and-key device placed on the mechanism by which the bypass device flow position is controlled (e.g., valve handle, damper level) when the bypass device is in the closed position such that the bypass line valve cannot be opened without breaking the seal or removing the device.	§ 63.1569(c)(1)-Table39.2	§ 63.1569(c)(1)-Table39.2 § 63.1569(c)(1)-Table39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
V-18	EU	63UUU-003	HYDROGEN CHLORIDE	40 CFR Part 63, Subpart UUU	§ 63.1567(a)(1)-Table22.2 § 63.1567(a)(1) § 63.1567(a)(1)(i) § 63.1567(a)(1)(ii) § 63.1567(a)(2) § 63.1567(a)(2)-Table23.1 § 63.1567(a)(3) § 63.1567(b)(3) § 63.1567(b)(4) § 63.1567(b)(4)(i) § 63.1567(b)(5) § 63.1567(b)(5)-Table26.2 § 63.1567(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) § 63.1571(d)(4) [G]§ 63.1571(e)	For each existing cyclic or continuous CRU, you must reduce uncontrolled emissions of HCl by 97 percent by weight or to a concentration of 10 ppmv (dry basis), corrected to 3% oxygen.	§ 63.1567(b)(1) § 63.1567(b)(1)-Table24.1 § 63.1567(b)(2) § 63.1567(b)(2)-Table25.1.a.(1) § 63.1567(b)(2)-Table25.1.a.(2) § 63.1567(b)(2)-Table25.1.b § 63.1567(b)(2)-Table25.1.c § 63.1567(b)(2)-Table25.1.d § 63.1567(b)(2)-Table25.1.e.(1) § 63.1567(b)(2)-Table25.1.e.(2) § 63.1567(b)(2)-Table25.1.e.(3) § 63.1567(b)(2)-Table25.1.e.(4)	§ 63.1567(b)(1)-Table24.1 § 63.1567(b)(2)-Table25.2.a.i § 63.1567(b)(2)-Table25.2.b.i § 63.1567(c)(1)-Table28.1.a § 63.1567(c)(1)-Table28.1.b § 63.1567(c)(2) § 63.1570(c) § 63.1572(c)(4) § 63.1572(c)(5) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1567(b)(6) § 63.1567(b)(7) § 63.1570(f) § 63.1571(a) § 63.1571(d)(4) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.1567(b)(2)-Table25.2.a.i § 63.1567(b)(2)-Table25.2.b.i § 63.1567(b)(2)-Table25.2.b.ii § 63.1567(c)(1)-Table27.2 § 63.1567(c)(1)-Table28.1.a § 63.1567(c)(1)-Table28.1.b § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(c) § 63.1572(c)(1) § 63.1572(c)(2) § 63.1572(c)(3) § 63.1572(c)(4) [G]§ 63.1572(d) [G]§ 63.1573(a)(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)
V-18	EU	63UUU-003	TOC	40 CFR Part 63, Subpart UUU	§ 63.1566(a)(1)(i)-Table15.1 § 63.1566(a)(1) § 63.1566(a)(2) § 63.1566(a)(2)-Table16.1 § 63.1566(a)(3) § 63.1566(a)(4) § 63.1566(a)(5) § 63.1566(b)(3) § 63.1566(b)(4) § 63.1566(b)(6) § 63.1566(b)(6)-Table19.1 § 63.1566(c)(1) § 63.1566(c)(2) § 63.1570(a) § 63.1570(b) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each applicable process vent for a new or existing catalytic reforming unit, you must vent emissions of total organic compounds (TOC) to a flare that meets the control device requirements in §63.11(b) (Option 1). Visible emissions from a flare must not exceed a total of 5 minutes during any 2-hour operating period.	§ 63.1566(b)(1) § 63.1566(b)(1)-Table17.1 § 63.1566(b)(2) § 63.1566(b)(2)-Table18.1.a § 63.1566(b)(2)-Table18.1.b § 63.1566(c)(1)-Table20.1 § 63.1566(c)(1)-Table21.1 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) [G]§ 63.1572(d)	§ 63.1566(c)(1)-Table21.1 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(c) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1566(b)(7) § 63.1566(b)(8) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
V-18	EU	63UUU-004	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1569(a)(1)(ii)-Table36.2 § 63.1569(a)(1) § 63.1569(a)(3) § 63.1569(b)(2) § 63.1569(b)(2)-Table38.1.b § 63.1569(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	If you elect to use a manual lock system (Option 2), you must install a car-seal or lock-and-key device placed on the mechanism by which the bypass device flow position is controlled (e.g., valve handle, damper level) when the bypass device is in the closed position such that the bypass line valve cannot be opened without breaking the seal or removing the device.	§ 63.1569(c)(1)-Table39.2	§ 63.1569(c)(1)-Table39.2 § 63.1569(c)(1)-Table39.5 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1569(b)(3) § 63.1569(b)(4) § 63.1569(c)(1)-Table39.5 § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-18	EU	63UUU-004	HYDROGEN CHLORIDE	40 CFR Part 63, Subpart UUU	§ 63.1567(a)(1)-Table22.2 § 63.1567(a)(1) § 63.1567(a)(1)(i) § 63.1567(a)(1)(ii) § 63.1567(a)(2) § 63.1567(a)(2)-Table23.1 § 63.1567(a)(3) § 63.1567(b)(3) § 63.1567(b)(4) § 63.1567(b)(4)(i) § 63.1567(b)(5) § 63.1567(b)(5)-Table26.2 § 63.1567(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) § 63.1571(d)(4) [G]§ 63.1571(e)	For each existing cyclic or continuous CRU, you must reduce uncontrolled emissions of HCl by 97 percent by weight or to a concentration of 10 ppmv (dry basis), corrected to 3% oxygen.	§ 63.1567(b)(1) § 63.1567(b)(1)-Table24.1 § 63.1567(b)(2) § 63.1567(b)(2)-Table25.1.a.(1) § 63.1567(b)(2)-Table25.1.a.(2) § 63.1567(b)(2)-Table25.1.b § 63.1567(b)(2)-Table25.1.c § 63.1567(b)(2)-Table25.1.d § 63.1567(b)(2)-Table25.1.e.(1) § 63.1567(b)(2)-Table25.1.e.(2) § 63.1567(b)(2)-Table25.1.e.(3) § 63.1567(b)(2)-Table25.1.e.(4) § 63.1567(b)(2)-Table25.2.a.i § 63.1567(b)(2)-Table25.2.b.i § 63.1567(b)(2)-Table25.2.b.ii § 63.1567(c)(1)-Table27.2 § 63.1567(c)(1)-Table28.1.a § 63.1567(c)(1)-Table28.1.b § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(c) § 63.1572(c)(1)	§ 63.1567(b)(1)-Table24.1 § 63.1567(b)(2)-Table25.2.a.i § 63.1567(b)(2)-Table25.2.b.i § 63.1567(c)(1)-Table28.1.a § 63.1567(c)(1)-Table28.1.b § 63.1567(c)(2) § 63.1570(c) § 63.1572(c)(4) § 63.1572(c)(5) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1567(b)(6) § 63.1567(b)(7) § 63.1570(f) § 63.1571(a) § 63.1571(d)(4) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.1572(c)(2) § 63.1572(c)(3) § 63.1572(c)(4) [G]§ 63.1572(d) [G]§ 63.1573(a)(1)		
V-18	EU	63UUU-004	TOC	40 CFR Part 63, Subpart UUU	§ 63.1566(a)(1)(ii)-Table15.2 § 63.1566(a)(1) § 63.1566(a)(2) § 63.1566(a)(2)-Table16.2.a § 63.1566(a)(3) § 63.1566(a)(4) § 63.1566(a)(5) § 63.1566(b)(1)-Table17.2 § 63.1566(b)(3) § 63.1566(b)(4) § 63.1566(b)(4)(i) § 63.1566(b)(6) § 63.1566(b)(6)-Table19.2 § 63.1566(c)(1) § 63.1566(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) § 63.1571(d)(4) [G]§ 63.1571(e)	For each applicable process vent for a new or existing catalytic reforming unit, you can elect to reduce uncontrolled emissions of TOC or nonmethane TOC from your process vent by 98% by weight using a control device or to a concentration of 20 ppmv (dry basis as hexane), corrected to 3 % O2, whichever is less stringent (Option 2). If you vent emissions to a boiler or process heater, the vent stream must be introduced into the flame zone or any other location that will achieve the percent reduct	§ 63.1566(b)(1) § 63.1566(b)(2) § 63.1566(b)(2)-Table18.2.a § 63.1566(b)(2)-Table18.2.b § 63.1566(b)(2)-Table18.2.c § 63.1566(b)(2)-Table18.2.d § 63.1566(b)(2)-Table18.2.f § 63.1566(b)(2)-Table18.2.h § 63.1566(c)(1)-Table20.2 § 63.1566(c)(1)-Table21.2.a § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) [G]§ 63.1571(c) § 63.1572(c) § 63.1572(c)(1) § 63.1572(c)(2) § 63.1572(c)(3) § 63.1572(c)(4) [G]§ 63.1572(d)	§ 63.1570(c) [G]§ 63.1571(c) § 63.1572(c)(4) § 63.1572(c)(5) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1566(b)(7) § 63.1566(b)(8) § 63.1570(f) § 63.1571(a) § 63.1571(d)(4) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-20	EU	60J-01		40 CFR Part 60, Subpart J	§ 60.100(c)	Any fluid catalytic cracking unit catalyst regenerator under paragraph (b) of this section which commences construction or modification on or before January 17, 1984, is exempted from §60.104(b).	None	None	None
V-20	EU	60J-01	CO	40 CFR Part 60, Subpart J	§ 60.103(a) § 60.103	No owner or operator shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator any gases that contain carbon monoxide (CO) in excess of 500 ppm by volume (dry basis).	§ 60.105(a) [G]§ 60.105(a)(2) § 60.105(c) § 60.105(e) § 60.105(e)(2) § 60.106(a) § 60.106(d)	§ 60.105(a) [G]§ 60.105(a)(2) § 60.105(c)	§ 60.105(e) § 60.105(e)(2) § 60.107(f) § 60.107(g)
V-20	EU	60J-01	PM	40 CFR Part 60, Subpart J	§ 60.102(a)(1) § 60.102 § 60.102(a)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator particulate matter in excess of 1.0 kg/Mg (2.0 lb/ton) of coke burn-off in the catalyst regenerator.	§ 60.105(c) § 60.106(a) [G]§ 60.106(b) ** See CAM Summary	§ 60.105(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)
V-20	EU	60J-01	PM (OPACITY)	40 CFR Part 60, Subpart J	§ 60.102(a)(2) § 60.102 § 60.102(a)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator gases exhibiting greater than 30 percent opacity, except for one six-minute average opacity reading in any one hour period.	§ 60.105(a) § 60.105(a)(1) § 60.105(c) § 60.105(e) § 60.105(e)(1) § 60.106(a) [G]§ 60.106(b)	§ 60.105(a) § 60.105(a)(1) § 60.105(c)	§ 60.105(e) § 60.105(e)(1) § 60.107(f) § 60.107(g)
V-20	EU	63UUU-001	CO	40 CFR Part 63, Subpart UUU	§ 63.1565(a)(1)-Table8.1 § 63.1565(a)(1) § 63.1565(a)(2) § 63.1565(a)(2)-Table9.1 § 63.1565(a)(3) § 63.1565(a)(4) § 63.1565(b)(3) § 63.1565(b)(4) § 63.1565(b)(4)-Table12.1 § 63.1565(c)(1) § 63.1565(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each new and existing CCU subject to the NSPS for CO in 40 CFR §60.103 or electing to comply with the NSPS requirements (Option 1), CO emissions from the catalyst regenerator vent or CO boiler serving the CCU must not exceed 500 parts per million volume (ppmv) (dry basis).	§ 63.1565(b)(1) § 63.1565(b)(1)(i) § 63.1565(c)(1)-Table13.1 § 63.1565(c)(1)-Table14.1 [G]§ 63.1571(b) § 63.1572(a) § 63.1572(a)(1) § 63.1572(a)(1)-Table40.3 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d) [G]§ 63.1573(a)(2)	§ 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1565(b)(5) § 63.1565(b)(6) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-20	EU	63UUU-001	PM	40 CFR Part 63, Subpart UUU	§ 63.1564(a)(1)-Table1.1 § 63.1564(a)(1) § 63.1564(a)(2) § 63.1564(a)(2)-Table2.1 § 63.1564(a)(3) § 63.1564(a)(4) § 63.1564(b)(5) § 63.1564(b)(5)-Table5.1 § 63.1564(c)(1) § 63.1564(c)(1)-Table7.1 § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing CCU subject to NSPS for PM in 40 CFR §60.102, PM emissions must not exceed 1.0 kg/1,000 kg (1.0 lb/1,000 lbs) of coke burn-off in the catalyst regenerator and, if applicable, the incremental rate of PM emissions must not exceed 43.0 g/GJ (0.10 lb/MMBtu) of heat input attributable to auxiliary or supplemental fired liquid or solid fossil fuel.	§ 63.1564(b)(1) § 63.1564(b)(1)-Table3.1 § 63.1564(c)(1)-Table6.1.a.i § 63.1572(b) § 63.1572(b)(1)-Table40.1 § 63.1572(b)(2) § 63.1572(b)(3) [G]§ 63.1572(d)	§ 63.1564(b)(1)-Table3.1 § 63.1564(c)(2) § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1564(b)(6) § 63.1564(b)(7) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)
V-20	EU	63UUU-001	PM (OPACITY)	40 CFR Part 63, Subpart UUU	§ 63.1564(a)(1)-Table1.1 § 63.1564(a)(1) § 63.1564(a)(2) § 63.1564(a)(2)-Table2.1 § 63.1564(a)(3) § 63.1564(a)(4) § 63.1564(b)(5) § 63.1564(b)(5)-Table5.1 § 63.1564(c)(1) § 63.1564(c)(1)-Table7.1 § 63.1570(b) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing CCU subject to NSPS for PM in 40 CFR §60.102, opacity of emissions must not exceed 30%, except for one 6-minute average opacity reading in any 1-hour period.	§ 63.1564(b)(1) § 63.1564(b)(1)-Table3.1 § 63.1564(c)(1)-Table6.1.a.i § 63.1572(b) § 63.1572(b)(1)-Table40.1 § 63.1572(b)(2) § 63.1572(b)(3) [G]§ 63.1572(d)	§ 63.1564(b)(1)-Table3.1 § 63.1564(c)(2) § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1564(b)(6) § 63.1564(b)(7) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-20	EU	63UUU-002	CO	40 CFR Part 63, Subpart UUU	§ 63.1565(a)(1)-Table8.1 § 63.1565(a)(1) § 63.1565(a)(2) § 63.1565(a)(2)-Table9.1 § 63.1565(a)(3) § 63.1565(a)(4) § 63.1565(b)(3) § 63.1565(b)(4) § 63.1565(b)(4)-Table12.1 § 63.1565(c)(1) § 63.1565(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each new and existing CCU subject to the NSPS for CO in 40 CFR §60.103 or electing to comply with the NSPS requirements (Option 1), CO emissions from the catalyst regenerator vent or CO boiler serving the CCU must not exceed 500 parts per million volume (ppmv) (dry basis).	§ 63.1565(b)(1) § 63.1565(b)(1)(i) § 63.1565(c)(1)-Table13.1 § 63.1565(c)(1)-Table14.1 [G]§ 63.1571(b) § 63.1572(a) § 63.1572(a)(1) § 63.1572(a)(1)-Table40.3 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d) [G]§ 63.1573(a)(2)	§ 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1565(b)(5) § 63.1565(b)(6) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)
V-20	EU	63UUU-002	PM	40 CFR Part 63, Subpart UUU	§ 63.1564(a)(1)-Table1.1 § 63.1564(a)(1) § 63.1564(a)(2) § 63.1564(a)(2)-Table2.1 § 63.1564(a)(3) § 63.1564(a)(4) § 63.1564(b)(5) § 63.1564(b)(5)-Table5.1 § 63.1564(c)(1) § 63.1564(c)(1)-Table7.1 § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing CCU subject to NSPS for PM in 40 CFR §60.102, PM emissions must not exceed 1.0 kg/1,000 kg (1.0 lb/1,000 lbs) of coke burn-off in the catalyst regenerator and, if applicable, the incremental rate of PM emissions must not exceed 43.0 g/GJ (0.10 lb/MMBtu) of heat input attributable to auxiliary or supplemental fired liquid or solid fossil fuel.	§ 63.1564(b)(1) § 63.1564(b)(1)-Table3.1 § 63.1564(c)(1)-Table6.1.a.i § 63.1572(b) § 63.1572(b)(1)-Table40.1 § 63.1572(b)(2) § 63.1572(b)(3) [G]§ 63.1572(d)	§ 63.1564(b)(1)-Table3.1 § 63.1564(c)(2) § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1564(b)(6) § 63.1564(b)(7) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-20	EU	63UUU-002	PM (OPACITY)	40 CFR Part 63, Subpart UUU	§ 63.1564(a)(1)-Table1.1 § 63.1564(a)(1) § 63.1564(a)(2) § 63.1564(a)(2)-Table2.1 § 63.1564(a)(3) § 63.1564(a)(4) § 63.1564(b)(5) § 63.1564(b)(5)-Table5.1 § 63.1564(c)(1) § 63.1564(c)(1)-Table7.1 § 63.1570(b) § 63.1570(c) § 63.1570(d) § 63.1570(g)	For each new or existing CCU subject to NSPS for PM in 40 CFR §60.102, opacity of emissions must not exceed 30%, except for one 6-minute average opacity reading in any 1-hour period.	§ 63.1564(b)(1) § 63.1564(b)(1)-Table3.1 § 63.1564(c)(1)-Table6.1.a.i § 63.1572(b) § 63.1572(b)(1)-Table40.1 § 63.1572(b)(2) § 63.1572(b)(3) [G]§ 63.1572(d)	§ 63.1564(b)(1)-Table3.1 § 63.1564(c)(2) § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1564(b)(6) § 63.1564(b)(7) § 63.1570(f) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h) [G]§ 63.1575(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-21	EU	63UUU-003	HYDROGEN CHLORIDE	40 CFR Part 63, Subpart UUU	§ 63.1567(a)(1)-Table22.1 § 63.1567(a)(1) § 63.1567(a)(1)(ii) § 63.1567(a)(2) § 63.1567(a)(2)-Table23.2 § 63.1567(a)(3) § 63.1567(b)(3) § 63.1567(b)(4) § 63.1567(b)(4)(i) § 63.1567(b)(4)(iii) § 63.1567(b)(5) § 63.1567(b)(5)-Table26.1 § 63.1567(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) § 63.1571(d)(4) [G]§ 63.1571(e)	For each existing semi-regenerative CRU, you must reduce uncontrolled emissions of hydrogen chloride (HCl) by 92 percent by weight or to a concentration of 30 ppmv (dry basis), corrected to 3% oxygen.	§ 63.1567(b)(1) § 63.1567(b)(1)-Table24.2 § 63.1567(b)(2) § 63.1567(b)(2)-Table25.1.a.(2) § 63.1567(b)(2)-Table25.1.b § 63.1567(b)(2)-Table25.1.c § 63.1567(b)(2)-Table25.1.d § 63.1567(b)(2)-Table25.1.e.(1) § 63.1567(b)(2)-Table25.1.e.(2) § 63.1567(b)(2)-Table25.1.e.(4) § 63.1567(b)(2)-Table25.3 § 63.1567(c)(1)-Table27.1 § 63.1567(c)(1)-Table28.2 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(c)(1)-Table41.2 [G]§ 63.1572(d)	§ 63.1567(c)(1)-Table28.2 § 63.1567(c)(2) § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1567(b)(6) § 63.1567(b)(7) § 63.1570(f) § 63.1571(a) § 63.1571(d)(4) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-21	EU	63UUU-003	TOC	40 CFR Part 63, Subpart UUU	§ 63.1566(a)(1)(i)-Table15.1 § 63.1566(a)(1) § 63.1566(a)(2) § 63.1566(a)(2)-Table16.1 § 63.1566(a)(3) § 63.1566(a)(4) § 63.1566(a)(5) § 63.1566(b)(3) § 63.1566(b)(4) § 63.1566(b)(6) § 63.1566(b)(6)-Table19.1 § 63.1566(c)(1) § 63.1566(c)(2) § 63.1570(a) § 63.1570(b) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each applicable process vent for a new or existing catalytic reforming unit, you must vent emissions of total organic compounds (TOC) to a flare that meets the control device requirements in §63.11(b) (Option 1). Visible emissions from a flare must not exceed a total of 5 minutes during any 2-hour operating period.	§ 63.1566(b)(1) § 63.1566(b)(1)-Table17.1 § 63.1566(b)(2) § 63.1566(b)(2)-Table18.1.a § 63.1566(b)(2)-Table18.1.b § 63.1566(c)(1)-Table20.1 § 63.1566(c)(1)-Table21.1 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) [G]§ 63.1572(d)	§ 63.1566(c)(1)-Table21.1 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(c) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1566(b)(7) § 63.1566(b)(8) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-21	EU	63UUU-004a	HYDROGEN CHLORIDE	40 CFR Part 63, Subpart UUU	§ 63.1567(a)(1)-Table22.1 § 63.1567(a)(1) § 63.1567(a)(1)(ii) § 63.1567(a)(2) § 63.1567(a)(2)-Table23.2 § 63.1567(a)(3) § 63.1567(b)(3) § 63.1567(b)(4) § 63.1567(b)(4)(i) § 63.1567(b)(4)(iii) § 63.1567(b)(5) § 63.1567(b)(5)-Table26.1 § 63.1567(c)(1) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) § 63.1571(d)(4) [G]§ 63.1571(e)	For each existing semi-regenerative CRU, you must reduce uncontrolled emissions of hydrogen chloride (HCl) by 92 percent by weight or to a concentration of 30 ppmv (dry basis), corrected to 3% oxygen.	§ 63.1567(b)(1) § 63.1567(b)(1)-Table24.2 § 63.1567(b)(2) § 63.1567(b)(2)-Table25.1.a.(2) § 63.1567(b)(2)-Table25.1.b § 63.1567(b)(2)-Table25.1.c § 63.1567(b)(2)-Table25.1.d § 63.1567(b)(2)-Table25.1.e.(1) § 63.1567(b)(2)-Table25.1.e.(2) § 63.1567(b)(2)-Table25.1.e.(4) § 63.1567(b)(2)-Table25.3 § 63.1567(c)(1)-Table27.1 § 63.1567(c)(1)-Table28.2 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(c)(1)-Table41.2 [G]§ 63.1572(d)	§ 63.1567(c)(1)-Table28.2 § 63.1567(c)(2) § 63.1570(c) [G]§ 63.1576(a) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1567(b)(6) § 63.1567(b)(7) § 63.1570(f) § 63.1571(a) § 63.1571(d)(4) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-21	EU	63UUU-004a	TOC	40 CFR Part 63, Subpart UUU	§ 63.1566(a)(1)(i)-Table15.1 § 63.1566(a)(1) § 63.1566(a)(2) § 63.1566(a)(2)-Table16.1 § 63.1566(a)(3) § 63.1566(a)(4) § 63.1566(a)(5) § 63.1566(b)(3) § 63.1566(b)(4) § 63.1566(b)(6) § 63.1566(b)(6)-Table19.1 § 63.1566(c)(1) § 63.1566(c)(2) § 63.1570(a) § 63.1570(b) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each applicable process vent for a new or existing catalytic reforming unit, you must vent emissions of total organic compounds (TOC) to a flare that meets the control device requirements in §63.11(b) (Option 1). Visible emissions from a flare must not exceed a total of 5 minutes during any 2-hour operating period.	§ 63.1566(b)(1) § 63.1566(b)(1)-Table17.1 § 63.1566(b)(2) § 63.1566(b)(2)-Table18.1.a § 63.1566(b)(2)-Table18.1.b § 63.1566(c)(1)-Table20.1 § 63.1566(c)(1)-Table21.1 § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) [G]§ 63.1572(d)	§ 63.1566(c)(1)-Table21.1 § 63.1570(c) [G]§ 63.1576(a) § 63.1576(c) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1566(b)(7) § 63.1566(b)(8) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(d) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)
V-5	PRO	60J-01	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i) § 60.104 § 60.104(a) § 60.104(a)(2)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge from any Claus sulfur recovery plant with an oxidation control system or a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume (dry basis) of sulfur dioxide at zero percent excess air into the atmosphere.	§ 60.105(a) [G]§ 60.105(a)(5) § 60.105(e) § 60.105(e)(4)(i) § 60.106(a) [G]§ 60.106(f) ** See CAM Summary	§ 60.105(a) [G]§ 60.105(a)(5)	§ 60.105(e) § 60.105(e)(4)(i) § 60.107(f) § 60.107(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
V-5	EU	60Ja-01	SO2	40 CFR Part 60, Subpart Ja	§ 60.102a(f)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja
V-5	EU	63UUU-005a	SO_2	40 CFR Part 63, Subpart UUU	§ 63.1568(a)(1)(i)-Table29.2.a § 63.1568(a)(1) § 63.1568(a)(2) § 63.1568(a)(2)-Table30.2 § 63.1568(a)(3) § 63.1568(b)(3) § 63.1568(b)(4) § 63.1568(b)(5) § 63.1568(b)(5)-Table33.2.a § 63.1568(c)(1) § 63.1568(c)(1)-Table35.2 § 63.1568(c)(2) § 63.1570(a) § 63.1570(c) § 63.1570(d) § 63.1570(g) [G]§ 63.1571(e)	For each new or existing SRU not subject to the NSPS for sulfur oxides in 40 CFR §60.104(a)(2) and electing to meet the NSPS requirements (Option 1), you must meet the emission limit for each process vent of 250 ppmv (dry basis) of SO_2 at zero percent excess air if you use an oxidation or reduction control system followed by incineration.	§ 63.1568(b)(1) § 63.1568(b)(1)-Table31.2.a § 63.1568(b)(2) § 63.1568(b)(2)-Table32.1 § 63.1568(c)(1)-Table34.2.a § 63.1571(a) § 63.1571(a)(1) [G]§ 63.1571(b) § 63.1572(a) § 63.1572(a)(1) § 63.1572(a)(1)-Table40.4 § 63.1572(a)(1)-Table40.8 § 63.1572(a)(2) § 63.1572(a)(3) § 63.1572(a)(4) [G]§ 63.1572(d)	§ 63.1568(b)(1)-Table31.2.a § 63.1568(c)(1)-Table34.2.a § 63.1570(c) [G]§ 63.1576(a) [G]§ 63.1576(b) § 63.1576(d) § 63.1576(e) § 63.1576(f) § 63.1576(g) § 63.1576(h) § 63.1576(i)	§ 63.1568(b)(6) § 63.1568(b)(7) § 63.1570(f) § 63.1571(a) [G]§ 63.1574(a) § 63.1574(d) § 63.1574(d)-Table42.1 § 63.1574(d)-Table42.2 § 63.1574(d)-Table42.3 § 63.1575(a) § 63.1575(a)-Table43.1 [G]§ 63.1575(b) [G]§ 63.1575(c) [G]§ 63.1575(e) [G]§ 63.1575(f) § 63.1575(g) [G]§ 63.1575(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FL-1	EU	R111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FL-1	CD	60A-01	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
FL-1	CD	63A-01	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
FL-3	EU	R111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	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)
FL-3	CD	60A-01	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
FL-3	CD	63A-01	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
FL-4	EU	R111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FL-4	CD	60A-01	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FL-4	CD	63A-01	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
FL-6	EU	R111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FL-6	CD	60A-01	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5)	None	None
FL-6	CD	63A-01	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(iii)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FL-8	EU	R1111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FL-8	CD	60A-01	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(d)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for equipment in vacuum service.	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(f) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in light liquid service complying with §60.482-2.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 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)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(i) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for compressors complying with §60.482-3.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements 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)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for sampling connection systems complying with §60.482-5.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for open-ended valves or lines complying with §60.482-6.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 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)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in gas/vapor service or in light liquid service complying with §60.482-7.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 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)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for flanges or other connectors complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in light liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSAT	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.648(g)	Compressors in hydrogen service are exempt from the requirements of §63.648(a) and (c), if an owner or operator demonstrates that a compressor is in hydrogen service. §63.648(g)(1)-(2).	[G]§ 63.648(g)	§ 63.648(h) § 63.655(d)(3) § 63.655(i)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(d)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for equipment in vacuum service.	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(f) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in light liquid service complying with §60.482-2.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(i) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for compressors complying with §60.482-3.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 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)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements 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)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for sampling connection systems complying with §60.482-5.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for open-ended valves or lines complying with §60.482-6.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in gas/vapor service or in light liquid service complying with §60.482-7.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 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)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for flanges or other connectors complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in light liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 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)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pressure relief devices in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
F-MSATLOAD	EU	63CCVV-ALL	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.648(g)	Compressors in hydrogen service are exempt from the requirements of §63.648(a) and (c), if an owner or operator demonstrates that a compressor is in hydrogen service. §63.648(g)(1)-(2).	[G]§ 63.648(g)	§ 63.648(h) § 63.655(d)(3) § 63.655(i)(5)	None
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(d)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for equipment in vacuum service.	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(f) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in light liquid service complying with §60.482-2.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 § 63.648(a)(2) § 63.648(i) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for compressors complying with §60.482-3.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(d)(6) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements 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)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 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)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for sampling connection systems complying with §60.482-5.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for open-ended valves or lines complying with §60.482-6.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in gas/vapor service or in light liquid service complying with §60.482-7.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) [G]§ 63.648(b)	[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) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for valves in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 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)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for pumps in heavy liquid service complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for flanges or other connectors complying with §60.482-8.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) [G]§ 63.648(b)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(d) § 60.482-10(e) § 60.482-10(m) § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for flares complying with §60.482-10.	§ 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) [G]§ 63.655(f)(1)(i)(D)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) [G]§ 60.482-1(c) [G]§ 60.484 § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for components complying with an equivalent emission limitation in §60.482-1.	[G]§ 60.482-1(c) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.648(a) § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(m) § 63.648(a)(2) § 63.655(d)(2)	Comply with the specified 40 CFR Part 60, Subpart VV requirements for closed vent (or vapor collection) systems complying with §60.482-10.	[G]§ 60.482-10(f) § 60.482-10(i) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.482-10(j) [G]§ 60.482-10(k) [G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 63.648(h) § 63.655(d)(1)(i) § 63.655(i)(5)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) [G]§ 63.655(f)(1)(i)(C) [G]§ 63.655(f)(1)(i)(D)
FUG-CC-VV	EU	63CCVV-1	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.648(g)	Compressors in hydrogen service are exempt from the requirements of §63.648(a) and (c), if an owner or operator demonstrates that a compressor is in hydrogen service. §63.648(g)(1)-(2).	[G]§ 63.648(g)	§ 63.648(h) § 63.655(d)(3) § 63.655(i)(5)	None
FUG-GGGA	EU	60GGGA-01	VOC	40 CFR Part 60, Subpart GGGa	[G]§ 60.590a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart GGGa	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart GGGa	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart GGGa	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart GGGa	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart GGGa
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(d)	Comply with the requirements as stated in §60.482-1(d) for equipment in vacuum service.	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9	Comply with the requirements as stated in §60.482-2 for pumps in light-liquid service.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.592(d) § 60.593(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(h) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9	Comply with the requirements as stated in §60.482-3 for compressors.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.592(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(h) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-4 [G]§ 60.482-9	Comply with the requirements in as stated in §60.482-4 for pressure relief devices in gas/vapor service.	[G]§ 60.482-4 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.592(d)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9	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) § 60.592(d)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9	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) § 60.592(d)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 60.592(b)	Comply with the requirements in as stated in §60.482-7 for valves in gas/vapor or light-liquid service.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.592(d) § 60.593(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) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(d) § 60.482-10(e) § 60.482-10(m)	Comply with the requirements in as stated in §60.482-10 for flares.	§ 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) § 60.592(d)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9	Comply with the requirements in as stated in §60.482-8 for flanges or other connectors.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.592(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG-LPG	EU	60GGG-1	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9	Comply with the requirements in as stated in §60.482-8 for pressure relief devices in light-liquid service.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.592(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.592(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)
GRP-COMP1	EU	63CCVV-2	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.648(g)	Compressors in hydrogen service are exempt from the requirements of §63.648(a) and (c), if an owner or operator demonstrates that a compressor is in hydrogen service. §63.648(g)(1)-(2).	[G]§ 63.648(g)	§ 63.648(h) § 63.655(d)(3) § 63.655(i)(5)	None
V-16	EU	R112-01	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO2 to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
V-5	EU	R112-01	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO2 to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
L-11	EU	63CC-GASLDG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.650(a) § 60.502(a) § 60.502(d) § 60.502(g) § 60.502(h) § 60.502(i) § 63.422(a) § 63.422(b) § 63.427(b)	A gasoline loading rack classified under SIC 2911 located within a contiguous area and under common control with a petroleum refinery shall comply with specified sections.	§ 60.503(a) § 60.503(b) § 60.503(d) § 60.503(d)(1) § 60.503(d)(2) § 63.425(a) § 63.425(b) § 63.425(b)(1) § 63.425(b)(2) § 63.425(b)(3) § 63.427(a) § 63.427(a)(3) § 63.427(b) § 63.642(d)(1) § 63.642(d)(3) § 63.642(d)(4)	§ 60.503(d)(2) § 63.425(b)(1) § 63.425(c) § 63.428(c)(1) § 63.428(c)(2) § 63.428(c)(2)(i) § 63.642(e) § 63.655(b) § 63.655(i)(5)	§ 63.428(c)(2) § 63.428(c)(2)(i) § 63.428(h)(1) § 63.642(d)(2) § 63.642(f) § 63.655(b)
L-15	EU	61BB	BENZENE	40 CFR Part 61, Subpart BB	§ 61.300(b)	Any affected facility as per § 61.300(a), loading only liquid containing < 70 weight-percent benzene is exempt from this subpart, except for the recordkeeping and reporting in § 61.305(i).	None	[G]§ 61.305(i)	[G]§ 61.305(i)
E-7	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FWPMP-1	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
FWPMP-2	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
FWPMP-3	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FWPMP-4	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
OLYMP-BLRHS	EU	63ZZZZ-03	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
OLYMP-MNOFC	EU	60IIII-01	NOx/CO/PM/OPACITY	40 CFR Part 60, Subpart IIII	§ 60.4200(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart IIII

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
OLYMP-MNOFC	EU	63ZZZZ-04	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	A new/reconstructed stationary RICE located at an area source, or located at a major source of HAP emissions and is a spark ignition (SI) 2SLB < 500 HP, SI 4 SLB < 250 HP, or 4SRB, compression ignition (CI), emergency or limited use, or which combusts landfill or digester gas at > 10% of the gross heat input < 500 HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII, for CI engines or 40 CFR Part 60, Subpart JJJJ, for SI engines.	None	None	None
SUBSTN 32	EU	63ZZZZ-02	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK1	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
GRP-TK10	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) § 60.116b(f)(1)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK10	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)
GRP-TK10	EU	63EEEE-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(a)	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
GRP-TK11	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.640(a) § 63.640(l) § 63.640(m)	This subpart applies to units and related emission points, specified in §63.640(c)(5)-(c)(7) located at a plant site that meet the criteria in §63.640(a)(1) and (a)(2). §63.640(a)(1)-(2).	None	§ 63.642(e)	[G]§ 63.640(k)(2) [G]§ 63.640(l)(3) § 63.640(m)(1) § 63.640(m)(2) § 63.642(f) § 63.654(f) § 63.654(f)(1) § 63.654(f)(1)(i) § 63.654(h)(1) [G]§ 63.654(h)(6)
GRP-TK11	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(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)
GRP-TK12	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
GRP-TK12	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK13	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.640(a) § 63.640(l) § 63.640(m)	This subpart applies to units and related emission points, specified in §63.640(c)(5)-(c)(7) located at a plant site that meet the criteria in §63.640(a)(1) and (a)(2). §63.640(a)(1)-(2).	None	§ 63.642(e)	[G]§ 63.640(k)(2) [G]§ 63.640(l)(3) § 63.640(m)(1) § 63.640(m)(2) § 63.642(f) § 63.654(f)(1) § 63.654(f)(1)(i) § 63.654(h)(1) [G]§ 63.654(h)(6)
GRP-TK13	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
GRP-TK16	EU	60KB-01	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(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) § 60.116b(f)(1)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b)	§ 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)
GRP-TK16	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.351(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) § 61.351(a)(1) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5)	§ 60.115b § 60.115b(a)(2) § 61.356(k)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 61.357(e) § 61.357(f)
GRP-TK16	EU	63EEEE-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(a)	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
GRP-TK18	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK19	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
GRP-TK19	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK2	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
GRP-TK20	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK20	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)
GRP-TK6	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) § 63.119(b)(4) § 63.120(a)(4) § 63.120(a)(7) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(a)(2)(i) § 63.120(a)(2)(ii) § 63.646(b)(1) § 63.646(e)	§ 63.120(a)(4) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(a)(5) § 63.120(a)(6) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) § 63.655(g)(2) [G]§ 63.655(g)(2)(i) [G]§ 63.655(g)(2)(ii) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK7	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	[G]§ 63.640(a) § 63.640(l) § 63.640(m)	his subpart applies to units and related emission points, specified in §63.640(c)(5)-(c)(7) located at a plant site that meet the criteria in §63.640(a)(1) and (a)(2). §63.640(a)(1)-(2).	None	§ 63.642(e)	§ 63.640(k)(2) [G]§ 63.640(l)(3) § 63.640(m)(1) § 63.640(m)(2) § 63.642(f) § 63.654(f)(1) § 63.654(f)(1)(i) § 63.654(h)(1) [G]§ 63.654(h)(6)
GRP-TK7	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
GRP-TK9	EU	KB-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TK9	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)
GRP-WW	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	§ 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h)	§ 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-006	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-006	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-018	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
S-018	EU	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
S-019	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(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)
S-019	EU	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
S-023	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(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)
S-023					§ 63.119(c)(1)(iii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g) None		§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) [G]§ 63.654(i)(1) § 63.654(i)(4)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.654(f) [G]§ 63.654(f)(1)(i) § 63.654(f)(6) § 63.654(g) [G]§ 63.654(g)(3) § 63.654(h) § 63.654(h)(1) § 63.654(h)(2)(i) § 63.654(h)(2)(i)(A) § 63.654(h)(2)(i)(B) § 63.654(h)(2)(i)(C) § 63.654(h)(2)(ii) [G]§ 63.654(h)(6)
S-023	EU	63CC-02	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-033	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) § 63.119(b)(4) § 63.120(a)(4) § 63.120(a)(7) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(a)(2)(i) § 63.120(a)(2)(ii) § 63.646(b)(1) § 63.646(e)	§ 63.120(a)(4) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(a)(5) § 63.120(a)(6) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) § 63.655(g)(2) [G]§ 63.655(g)(2)(i) [G]§ 63.655(g)(2)(ii) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)
S-090	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.120(a)(4) § 63.120(a)(7) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii) § 63.646(b)(1) § 63.646(e)	§ 63.120(a)(4) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(a)(5) § 63.120(a)(6) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) § 63.655(g)(2) [G]§ 63.655(g)(2)(ii) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) [G]§ 63.655(h)(6)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-143	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.646(a) § 63.119(a)(1) § 63.119(c)(1) § 63.119(c)(1)(i) § 63.119(c)(1)(ii) § 63.119(c)(1)(iii) [G]§ 63.119(c)(3) § 63.119(c)(4) § 63.120(b)(10)(i) § 63.120(b)(5)(i) § 63.120(b)(5)(ii) § 63.120(b)(6)(i) § 63.120(b)(6)(ii) [G]§ 63.120(b)(7) § 63.120(b)(8) [G]§ 63.646(f) § 63.646(g)	Each owner or operator of a Group 1 storage vessel subject to this subpart shall comply with the requirements of §63.119 - §63.121 except as provided in §63.646(b)-(l).	§ 63.120(b)(1)(i) § 63.120(b)(1)(iii) § 63.120(b)(1)(iv) § 63.120(b)(10) § 63.120(b)(2)(i) § 63.120(b)(2)(ii) § 63.120(b)(2)(iii) § 63.120(b)(3) § 63.120(b)(4) § 63.646(b)(1) § 63.646(e)	[G]§ 63.120(b)(7) § 63.120(b)(8) § 63.642(e) § 63.646(b)(1) § 63.655(h)(1) [G]§ 63.655(i)(1) § 63.655(i)(5)	§ 63.120(b)(10)(ii) § 63.120(b)(10)(iii) § 63.120(b)(9) § 63.642(f) § 63.655(f) [G]§ 63.655(f)(1)(i)(B) § 63.655(f)(6) § 63.655(g) [G]§ 63.655(g)(3) § 63.655(h) § 63.655(h)(1) § 63.655(h)(2)(i) § 63.655(h)(2)(i)(A) § 63.655(h)(2)(i)(B) § 63.655(h)(2)(i)(C) § 63.655(h)(2)(ii) [G]§ 63.655(h)(6)
S-144	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
S-150	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(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)
S-176	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(9) § 60.112a(a)(1) § 60.112a(a)(1)(i) § 60.112a(a)(1)(i)(A) § 60.112a(a)(1)(i)(C) § 60.112a(a)(1)(i)(D) § 60.112a(a)(1)(ii)(A) § 60.112a(a)(1)(ii)(B) § 60.112a(a)(1)(ii)(C) § 60.112a(a)(1)(ii)(D) § 60.112a(a)(1)(iii) § 60.112a(a)(1)(iv) § 63.640(n)(9)(i) § 63.640(n)(9)(ii)	Vessels described by paragraph §60.640(n)(6) that are to comply with 40 CFR part 60, subpart Ka, are to comply with only subpart Ka except as provided for in §63.640(n)(9)(i)-(iv).	[G]§ 60.113a(a)(1) § 60.115a(a) § 60.115a(b) § 63.640(n)(9)(i)	§ 60.113a(a)(1)(i)(D) § 60.115a(a)	§ 60.113a(a)(1)(i)(E) § 60.113a(a)(1)(iv) § 63.640(n)(9)(iii) § 63.640(n)(9)(iv)
S-177	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) § 63.640(l) § 63.640(m)	This subpart applies to units and related emission points, specified in §63.640(c)(5)-(c)(7) located at a plant site that meet the criteria in §63.640(a)(1) and (a)(2). §63.640(a)(1)-(2).	None	§ 63.642(e)	[G]§ 63.640(k)(2) [G]§ 63.640(l)(3) § 63.640(m)(2) § 63.642(f) § 63.654(f)(1) § 63.654(f)(1)(i) § 63.654(h)(1) [G]§ 63.654(h)(6)
S-177	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(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)
S-183	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
S-183	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) § 63.640(n)(8)(ii)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)
S-184	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 60.113b(a)(2) § 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)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-184	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) [G]§ 60.116b(e)(3) § 63.640(n)(8)(ii)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)
S-186	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(A) § 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) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
S-186	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(A) § 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) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) § 63.640(n)(8)(ii)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-187	EU	60KB-01	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) § 60.116b(e)(2)(i)	§ 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)
S-187	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(A) § 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) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) § 63.640(n)(8)(ii)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 63.640(n)(8)(v)
S-194	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) § 63.640(l) § 63.640(m)	This subpart applies to units and related emission points, specified in §63.640(c)(5)-(c)(7) located at a plant site that meet the criteria in §63.640(a)(1) and (a)(2). §63.640(a)(1)-(2).	None	§ 63.642(e)	[G]§ 63.640(k)(2) [G]§ 63.640(l)(3) § 63.640(m)(1) § 63.640(m)(2) § 63.642(f) § 63.654(f)(1) § 63.654(f)(1)(i) § 63.654(h)(1) [G]§ 63.654(h)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-194	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
S-200	EU	60KB-01	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
S-200	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 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) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) § 63.640(n)(8)(ii)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-204	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(c)(2)	All Group 2 storage vessels associated with petroleum refining process units meeting the criteria in paragraph (a) of this section are part of the affected source.	§ 63.646(b)(1) § 63.646(b)(2)	§ 63.646(b)(1) § 63.655(g)(7)(ii) § 63.655(i)(1)(iv) § 63.655(i)(5)	§ 63.655(f) § 63.655(f)(1)(i)(A) § 63.655(g) § 63.655(g)(7) § 63.655(g)(7)(i) § 63.655(h) § 63.655(h)(6) § 63.655(h)(6)(ii)
S-227	EU	60KB-02	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) § 60.116b(f)(1)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-227	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-227	EU	63EEEE-1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(a)	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
S-228	EU	60KB-02	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) § 60.116b(f)(1)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-228	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.351(a) [G]§ 60.112b(a)(2) § 61.351(a)(2) § 61.351(b)	As an alternative to the standards for tanks specified in § 61.343, an owner or operator may elect to comply with one of the following §61.351(a)(1)-(3):	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6)	§ 60.115b [G]§ 60.115b(b)(3) § 61.356(k)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 61.357(e) § 61.357(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-229	EU	60Kb	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-229	EU	63CC	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-232	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-232	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) § 60.116b(e)(2)(i) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S-233	EU	60Kb-01	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(2)	Storage vessels specified in §60.112b(a) and equipped with an external floating roof (pontoon or double-deck type) are to meet the specifications of §60.112b(a)(2)(i)-(iii).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4)
S-233	EU	63CC-01	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(n)(8) [G]§ 60.112b(a)(2) § 63.640(n)(8)(i) § 63.640(n)(8)(ii) § 63.640(n)(8)(iii)	Vessels described by § 63.640(n)(1) and (n)(3) are to comply with 40 CFR part 60, subpart Kb, except as provided for in §63.640(n)(8)(i)-(vi).	[G]§ 60.113b(b)(1) [G]§ 60.113b(b)(2) § 60.113b(b)(3) § 60.113b(b)(4) § 60.113b(b)(4)(i) § 60.113b(b)(4)(i)(A) § 60.113b(b)(4)(i)(B) [G]§ 60.113b(b)(4)(ii) § 60.113b(b)(4)(iii) § 60.113b(b)(5) [G]§ 60.113b(b)(6) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 63.120(b)(7) § 63.640(n)(8)(ii)	§ 60.115b [G]§ 60.115b(b)(3) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.640(n)(8)(vi)	§ 60.113b(b)(4)(iii) § 60.113b(b)(5) § 60.113b(b)(6)(ii) § 60.115b § 60.115b(b)(1) [G]§ 60.115b(b)(2) § 60.115b(b)(4) § 63.640(n)(8)(iv) § 63.640(n)(8)(v)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROACID1	EU	R112-01	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.6(a) § 112.6(b)	Except as provided in §112.5 and in §112.14 no person may cause, suffer, allow, or permit emissions of SO2 from any sulfuric acid plant to exceed the emission limits set by the specified equation.	§ 112.2(a)	§ 112.2(c)	§ 112.2(b)
PROACID1	PRO	60H-01	SO2	40 CFR Part 60, Subpart H	§ 60.82(a)	On and after the §60.8 performance test, no owner or operator shall discharge gases containing SO2 in excess of 2 kg per metric ton (4.0 lb per ton) of acid produced into the atmosphere.	§ 60.84(a) § 60.84(b) § 60.84(c) § 60.84(e) § 60.85(a) § 60.85(b)(1) § 60.85(b)(2) § 60.85(b)(3)	None	§ 60.84(e)
PROACID1	PRO	60H-01	PM (OPACITY)	40 CFR Part 60, Subpart H	§ 60.83(a)(2)	No owner or operator shall discharge any gases exhibiting 10% opacity, or greater.	§ 60.85(a) § 60.85(b)(4)	None	None
PROACID1	PRO	60H-01	H_2SO_4	40 CFR Part 60, Subpart H	§ 60.83(a)(1)	No owner or operator shall discharge any gases containing acid mist, expressed as H2SO4, in excess of 0.075 kg per metric ton (0.15 lb per ton) of acid produced, the production being expressed as 100% H2SO4.	§ 60.85(a) § 60.85(b)(1) § 60.85(b)(2) § 60.85(b)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROACID2	EU	R112-01	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.6(a) § 112.6(b)	Except as provided in §112.5 and in §112.14 no person may cause, suffer, allow, or permit emissions of SO2 from any sulfuric acid plant to exceed the emission limits set by the specified equation.	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PROACID2	PRO	60H-01	SO2	40 CFR Part 60, Subpart H	§ 60.82(a)	On and after the §60.8 performance test, no owner or operator shall discharge gases containing SO2 in excess of 2 kg per metric ton (4.0 lb per ton) of acid produced into the atmosphere.	§ 60.84(a) § 60.84(b) § 60.84(c) § 60.84(e) § 60.85(a) § 60.85(b)(1) § 60.85(b)(2) § 60.85(b)(3) ** See CAM Summary	None	§ 60.84(e)
PROACID2	PRO	60H-01	PM (OPACITY)	40 CFR Part 60, Subpart H	§ 60.83(a)(2)	No owner or operator shall discharge any gases exhibiting 10% opacity, or greater.	§ 60.85(a) § 60.85(b)(4)	None	None
PROACID2	PRO	60H-01	H_2SO_4	40 CFR Part 60, Subpart H	§ 60.83(a)(1)	No owner or operator shall discharge any gases containing acid mist, expressed as H2SO4, in excess of 0.075 kg per metric ton (0.15 lb per ton) of acid produced, the production being expressed as 100% H2SO4.	§ 60.85(a) § 60.85(b)(1) § 60.85(b)(2) § 60.85(b)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROFFTRMT	PRO	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.348(a)(1) § 61.348(a)(1)(i) § 61.348(a)(2) § 61.348(a)(3) § 61.348(a)(4) [G]§ 61.348(d) § 61.348(e) § 61.348(e)(1) § 61.348(e)(2)	The owner or operator shall design, install, operate and maintain a treatment process that removes or destroys benzene as specified.	§ 61.348(e)(1)	§ 61.356(e) § 61.356(e)(1) [G]§ 61.356(i)	§ 61.357(d)(7)
WW12	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.347(a)(1) § 60.18 § 61.347(a)(1)(i)(A) § 61.347(a)(1)(i)(B) § 61.347(b) § 61.347(c) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control device.	§ 60.18(f)(2) § 61.347(a)(1)(i)(A) § 61.347(b) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) § 61.354(e) [G]§ 61.355(h)	§ 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)
WW13	EU	61FF-01	BENZENE	40 CFR Part 61, Subpart FF	§ 61.347(a)(1) § 60.18 § 61.347(a)(1)(i)(A) § 61.347(a)(1)(i)(B) § 61.347(b) § 61.347(c) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g)	Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control device.	§ 60.18(f)(2) § 61.347(a)(1)(i)(A) § 61.347(b) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) § 61.354(e) [G]§ 61.355(h)	§ 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7)	§ 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F)

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: FL-1, FL-3, FL-4, FL-6, FL-8	
Control Device ID No.: FL-1, FL-3, FL-4, FL-6, FL-8	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 40 CFR Part 61, Subpart FF	SOP Index No.: 61FF-01
Pollutant: BENZENE	Main Standard: § 61.349(a)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: It is a deviation if there is no pilot flame	
CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain records of alarm events and duration of alarm events. Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.	

CAM Summary

Unit/Group/Process Information	
ID No.: PROACID2	
Control Device ID No.: V-29SCBR	Control Device Type: SO2 Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO2	Main Standard: § 112.6(a)
Monitoring Information	
Indicator: Sulfur Dioxide Concentration	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: SO2 emissions may not exceed 189.77 lb/hr, based on the equation in 30 TAC 112.6. (Stack Effluent Flow Rate, q=5469 scfm)	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record sulfur dioxide emissions in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B. In addition, monitor oxygen or carbon dioxide with a CEMS operated in accordance with above CEMS procedures.	

CAM Summary

Unit/Group/Process Information	
ID No.: PROACID2	
Control Device ID No.: V-29SCBR	Control Device Type: SO2 Scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart H	SOP Index No.: 60H-01
Pollutant: SO2	Main Standard: § 60.82(a)
Monitoring Information	
Indicator: Sulfur Dioxide Concentration	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: It is a deviation if SO2 emissions exceed 2 kg per metric ton of acid produced (4 lbs per ton).	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record sulfur dioxide emissions in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B. In addition, monitor oxygen or carbon dioxide with a CEMS operated in accordance with above CEMS procedures.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-5	
Control Device ID No.: V-5INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO2 Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: SO2 emissions may not exceed 2971.70 lb/hr, based in the equation in 30 TAC 112.7 (Stack Effluent Flow Rate, q=3130 scfm)	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-16	
Control Device ID No.: V-16INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO2 Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: SO2 emissions may not exceed 580.11 lb/hr, based on the equation in 30 TAC 112.7. (Stack Effluent Flow Rate, q=5009 scfm)	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-5, V-16	
Control Device ID No.: V-5INC, V-16INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO2	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: The minimum combustion temperature is 1200 degrees F (649 C)	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-5, V-16	
Control Device ID No.: V-5INC, V-16INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-01
Pollutant: SO_2	Main Standard: § 60.104(a)(2)(i)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: The minimum combustion temperature is 1200 degrees F (649 degrees C).	
CAM Text: : The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-5, V-16	
Control Device ID No.: V-5INC, V-16INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-01
Pollutant: SO_2	Main Standard: § 60.104(a)(2)(i)
Monitoring Information	
Indicator: SO2 Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: It is a deviation if emissions exceed 250 ppm by volume (dry basis) of sulfur dioxide (SO2) at zero percent excess air.	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-20	
Control Device ID No.: V-20INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: It is a deviation if opacity exceeds 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: V-20	
Control Device ID No.: V-20INC	Control Device Type: Sulfur Recovery Unit with Incinerator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart J	SOP Index No.: 60J-01
Pollutant: PM	Main Standard: § 60.102(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: It is a deviation if opacity exceeds 30%, except for one six minute average opacity reading in any one hour period.	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-TK8, GRP-TK15, S-177, S-194	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart UU	SOP Index No.: 60UU-01
Pollutant: PM (OPACITY)	Main Standard: § 60.472(c)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: six minutes	
Deviation Limit: < 0% Opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VT-20	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: Opacity above 20%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VT-30	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-02
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per quarter	
Averaging Period: n/a	
Deviation Limit: Opacity above 30%	
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 a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: H-41	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-02
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: Opacity > 15 percent	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TK13	S-059, S-060, S-065, S-066, S-067, S-075, S-076	40 CFR Part 60, Subpart UU	Constructed before 5/26/81
GRP-TK14	S-074	40 CFR Part 60, Subpart UU	Constructed before 05/26/1981
GRP-TK14	S-074	40 CFR Part 63, Subpart CC	MACT CC does not cover asphalt tanks as Group 2 tanks
GRP-TK15	S-137, S-138	40 CFR Part 63, Subpart CC	MACT CC does not cover asphalt tanks as Group 2 tanks.
GRP-TK3	S-063, S-064, S-068, S-069, S-070, S-071, S-072, S-073	40 CFR Part 60, Subpart UU	Constructed before 05/26/1981
GRP-TK3	S-063, S-064, S-068, S-069, S-070, S-071, S-072, S-073	40 CFR Part 63, Subpart CC	MACT CC does not cover asphalt tanks as Group 2 tanks
GRP-TK8	S-220, S-221, S-222, S-223	40 CFR Part 63, Subpart CC	MACT CC does not cover asphalt tanks as Group 2 tanks.
B-12	N/A	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fuel.
B-12	N/A	40 CFR Part 60, Subpart D	fossil fuel fired and <= 250 MMBtu/hr or fossil fuel fired and wood residue fired and < 250 MMBtu/hr
B-13	N/A	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fuel.

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
B-13	N/A	40 CFR Part 60, Subpart D	fossil fuel fired and <= 250 MMBtu/hr or fossil fuel fired and wood residue fired and < 250 MMBtu/hr
B-22	N/A	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fossil fuel.
GRP-BOILER1	B-10, B-11, B-8, B-9	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fuel.
GRP-BOILER1	B-10, B-11, B-8, B-9	40 CFR Part 60, Subpart D	pre 08/17/1971
GRP-BOILER2	B-4, B-5, B-6, B-7	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fuel.
GRP-BOILER2	B-4, B-5, B-6, B-7	40 CFR Part 60, Subpart D	pre 08/17/1971
FL-6	N/A	40 CFR Part 60, Subpart QQQ	MACT CC Group 1 streams also subject to NSPS QQQ are required to comply only with MACT CC.
RX-MSAT	N/A	40 CFR Part 60, Subpart NNN	Overhead receiver vent to flare is a manually controlled valve that can be opened to the flare on an as needed basis. The gas stream doesn't vent directly or indirectly to the atmosphere, so it doesn't meet the definition of a "vent stream" in 60.661

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RX-MSAT	N/A	40 CFR Part 60, Subpart RRR	Does not meet the definition of reactor process 40 CFR 60.701, therefore the unit is not an affected facility under NSPS RRR
GRP-VT-1	VT-1, VT-13, VT-22	40 CFR Part 63, Subpart G	No chemical manufacturing process units subject to SOCMI HON requirements.
GRP-VT-2	VT-2, VT-8	40 CFR Part 63, Subpart G	No chemical manufacturing process units subject to SOCMI HON requirements.
GRP-VT-EX	VT-6	40 CFR Part 60, Subpart Kb	No chemical manufacturing process units subject to SOCMI HON requirements.
VT-11	N/A	40 CFR Part 63, Subpart G	No chemical manufacturing process units subject to SOCMI HON requirements.
VT-15	N/A	40 CFR Part 63, Subpart G	No chemical manufacturing process units subject to SOCMI HON requirements.
VT-23	N/A	40 CFR Part 60, Subpart Kb	No chemical manufacturing process units subject to SOCMI HON requirements.
GRP-HTR-FG	H-13, H-14, H-15, H-18, H-26, H-27, H-28, H-34, H-36, H-37, H-38, H-39, H-40, H-42, H-43, H-45, H-46, H-48, H-6, H-64, H-8, H-80, H-88	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fossil fuel.

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-HTR-FG2	H-1, H-11, H-9	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fossil fuel.
GRP-HTR-NG	H-30, H-31B, H-32, H-32C, H-33, H-35, H-51	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fuel.
GRP-HTR-NG	H-30, H-31B, H-32, H-32C, H-33, H-35, H-51	40 CFR Part 60, Subpart J	Heaters are burning only commercially purchased natural gas which is not generated at the refinery.
H-2	N/A	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fossil fuel.
H-41	N/A	30 TAC Chapter 112, Sulfur Compounds	Combustion unit is not fired with liquid or solid fossil fuel.
F-MSAT	N/A	40 CFR Part 60, Subpart GGG	Commenced construction after 11/06/2006
F-MSAT	N/A	40 CFR Part 60, Subpart GGGa	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSAT	N/A	40 CFR Part 60, Subpart VV	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
F-MSAT	N/A	40 CFR Part 60, Subpart VVa	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSAT	N/A	40 CFR Part 61, Subpart J	Equipment leaks are subject to both provisions of 40 CFR Part 61 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSAT	N/A	40 CFR Part 61, Subpart V	Equipment leaks are subject to both provisions of 40 CFR Part 61 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSAT	N/A	40 CFR Part 63, Subpart EEEE	Equipment leak components are part of an affected source under another subpart od 40 CFR Part 63 (MACT CC)
F-MSATLOAD	N/A	40 CFR Part 60, Subpart GGG	Commenced construction after 11/06/2006
F-MSATLOAD	N/A	40 CFR Part 60, Subpart GGGa	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
F-MSATLOAD	N/A	40 CFR Part 60, Subpart VV	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSATLOAD	N/A	40 CFR Part 60, Subpart VVa	Equipment leaks are subject to both provisions of 40 CFR Part 60 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSATLOAD	N/A	40 CFR Part 61, Subpart J	Equipment leaks are subject to both provisions of 40 CFR Part 61 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSATLOAD	N/A	40 CFR Part 61, Subpart V	Equipment leaks are subject to both provisions of 40 CFR Part 61 and Part 63, Subpart CC are required to comply only with the provisions of MACT CC
F-MSATLOAD	N/A	40 CFR Part 63, Subpart EEEE	Equipment leak components are part of an affected source under another subpart of 40 CFR Part 63 (MACT CC)
F-20	N/A	40 CFR Part 63, Subpart Q	Have not operated with chromium-based water treatment chemicals on or after 09/08/1994

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
F-21	N/A	40 CFR Part 63, Subpart Q	Have not operated with chromium-based water treatment chemicals on or after 09/08/1994
L-11	N/A	40 CFR Part 61, Subpart BB	The facility only loads benzene-laden waste, gasoline, crude oil, natural gas liquids, petroleum distillates, or benzene-laden liquid from coke by-products.
L-15	N/A	40 CFR Part 63, Subpart CC	The loading rack is not subject to MACT CC because it does not meet the definition of gasoline loading rack pwe 40 CFR 63.641
S-234	N/A	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure < 0.5 psia.
S-234	N/A	40 CFR Part 63, Subpart CC	Storage vessel is part of an existing source that is also subject to 40 CFR Part 60, Subpart Kb. and is therefore required to comply only with the requirements of 40 CFR Part 60, Subpart Kb.
1150-TANK-TXX4	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
1150-TANK-TXX5	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
1150-TANK-TXX6	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
1220-TANK-MXX1	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
1220-TANK-TXX1	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
1220-TANK-TXX2	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
1220-TANK-TXX3	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
ADDITIVETK	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia
F-47	N/A	40 CFR Part 63, Subpart Q	Have not operated with chromium-based water treatment chemicals on or after 09/08/1994.
FCCUC2	N/A	40 CFR Part 63, Subpart CC	Compressor is not in organic HAP service (less than 5 weight percent total organic HAPs).
FL-9	N/A	30 TAC Chapter 101, General Rules	Pilot lights used to comply with 16 TAC 3.95 are not flares and are not subject to flare requirements in 30 TAC 101.
FL-9	N/A	30 TAC Chapter 111, Visible Emissions	Pilot lights used to comply with 16 TAC 3.95 are not flares and are not subject to flare requirements in 30 TAC 111.
FL-9	N/A	40 CFR Part 60, Subpart J	Pilot lights used to comply with 16 TAC 3.95 are not flares and are not subject to flare requirements in NSPS J.
GRP-COMP2	RLEC1, RLEC2	40 CFR Part 63, Subpart CC	Compressors operate in organic HAP service less than 300 hours.

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-VT-EX	VT-10, VT-12, VT-14, VT-17, VT-18, VT-19, VT-20, VT-21, VT-3, VT-4, VT-6, VT-7	40 CFR Part 63, Subpart CC	Gas streams containing less than 20 ppmv of organic HAP do not meet the definition of "miscellaneous process vent".
S-102	N/A	40 CFR Part 63, Subpart EEEE	Pressure vessels are not included in the definition of "storage tank" under MACT EEEE
S-189	N/A	40 CFR Part 63, Subpart EEEE	Pressure vessels are not included in the definition of "storage tank" under MACT EEEE.
S-190	N/A	40 CFR Part 63, Subpart EEEE	Pressure vessels are not included in the definition of "storage tank" under MACT EEEE.
S-201	N/A	40 CFR Part 63, Subpart EEEE	Pressure vessels are not included in the definition of "storage tank" under MACT EEEE.
WW4	N/A	40 CFR Part 60, Subpart Kb	Unit is a process tank which is excluded from the storage tank definition.
WW4	N/A	40 CFR Part 60, Subpart QQQ	Storage tank contains treated water and is not used for storage of petroleum liquids, including oily wastewater.
WW4	N/A	40 CFR Part 61, Subpart FF	Streams are not benzene laden waste streams.

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
WW4	N/A	40 CFR Part 63, Subpart CC	Storage tank contains treated water and does not contain a Group1 wastewater stream.
WW6	N/A	40 CFR Part 60, Subpart Kb	Unit is a process tank which is excluded from the storage tank definition.
WW6	N/A	40 CFR Part 60, Subpart QQQ	Storage tank contains treated water and is not used for storage of petroleum liquids, including oily wastewater.
WW6	N/A	40 CFR Part 61, Subpart FF	Streams are not benzene laden waste streams.
WW6	N/A	40 CFR Part 63, Subpart CC	Storage tank contains treated water and does not contain a Group1 wastewater stream.
E-7	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005
E-7	N/A	40 CFR Part 60, Subpart JJJJ	Commenced construction/modification/reconstruction before June 12, 2006
FWPMP-1	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
FWPMP-1	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
FWPMP-2	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005
FWPMP-2	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
FWPMP-3	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005
FWPMP-3	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
FWPMP-4	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005
FWPMP-4	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
OLYMP-BLRHS	N/A	40 CFR Part 60, Subpart IIII	Not a compression ignition internal combustion engine
OLYMP-BLRHS	N/A	40 CFR Part 60, Subpart JJJJ	Commenced construction/modification/reconstruction before June 12, 2006

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
OLYMP-MNOFC	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
SUBSTN 32	N/A	40 CFR Part 60, Subpart IIII	Commenced construction/modification/reconstruction before July 11, 2005
SUBSTN 32	N/A	40 CFR Part 60, Subpart JJJJ	Not a spark ignition internal combustion engine
GRP-TK1	S-002, S-003, S-004, S-005, S-008, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-022	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK1	S-002, S-003, S-004, S-005, S-008, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-022	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK10	S-195, S-196	40 CFR Part 60, Subpart QQQ	Kb tanks are not subject to QQQ
GRP-TK10	S-195, S-196	40 CFR Part 63, Subpart CC	Wastewater tanks are not included in the definition of a storage vessel
GRP-TK11	S-031, S-192, S-203, S-211, S-212, S-213, S-219	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure < 0.5 psia.

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TK11	S-031, S-192, S-203, S-211, S-212, S-213, S-219	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK12	S-209, S-210	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK13	S-059, S-060, S-065, S-066, S-067, S-075, S-076	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK13	S-059, S-060, S-065, S-066, S-067, S-075, S-076	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK14	S-074	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK14	S-074	40 CFR Part 63, Subpart EEEE	Tanks store material with less than 5 percent by weight of the organic HAP listed in Table 1, which does not meet the definition of “In organic liquids service” under MACT EEEE.
GRP-TK15	S-137, S-138	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5 psia

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TK15	S-137, S-138	40 CFR Part 63, Subpart EEEE	Tanks store material with less than 5 percent by weight of the organic HAP listed in Table 1, which does not meet the definition of "In organic liquids service" under MACT EEEE.
GRP-TK16	S-197, S-199	40 CFR Part 60, Subpart QQQ	Kb tanks are not subject to QQQ
GRP-TK16	S-197, S-199	40 CFR Part 63, Subpart CC	Wastewater tanks are not included in the definition of a storage vessel.
GRP-TK18	S-001, S-009, S-021	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK18	S-001, S-009, S-021	40 CFR Part 61, Subpart Y	Vessel stores benzene that is not within the specific gravities defined in 40 CFR 61.270(a)
GRP-TK18	S-001, S-009, S-021	40 CFR Part 63, Subpart EEEE	Vessels are part of an affected source under another subpart of 40 CFR Part 63 (MACT 63)
GRP-TK18	S-001, S-009, S-021	40 CFR Part 63, Subpart F	The provisions of subpart F does not apply to petroleum refining process units
GRP-TK18	S-001, S-009, S-021	40 CFR Part 63, Subpart G	The provisions of subpart G does not apply to petroleum refining process units
GRP-TK18	S-001, S-009, S-021	40 CFR Part 63, Subpart H	The provisions of subpart H does not apply to petroleum refining process units

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TK2	S-007, S-010, S-020, S-024, S-025, S-027, S-028, S-035, S-039, S-040, S-042, S-043, S-046, S-052, S-053, S-056, S-095, S-139, S-141	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK2	S-007, S-010, S-020, S-024, S-025, S-027, S-028, S-035, S-039, S-040, S-042, S-043, S-046, S-052, S-053, S-056, S-095, S-139, S-141	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK3	S-063, S-064, S-068, S-069, S-070, S-071, S-072, S-073	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK3	S-063, S-064, S-068, S-069, S-070, S-071, S-072, S-073	40 CFR Part 63, Subpart EEEE	Asphalt is not included in the definition of "organic liquid" under MACT EEEE
GRP-TK4	S-168, S-173, S-174, S-175	40 CFR Part 60, Subpart K	Constructed prior to 6/11/73
GRP-TK4	S-168, S-173, S-174, S-175	40 CFR Part 63, Subpart CC	Emission units that do not contain HAPs are not subject to MACT CC.
GRP-TK4	S-168, S-173, S-174, S-175	40 CFR Part 63, Subpart EEEE	Process vessels are not included in the definition of "Storage tank" under MACT EEEE.
GRP-TK5	S-179, S-180	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TK5	S-179, S-180	40 CFR Part 63, Subpart CC	Tank has capacity < 40 m3 and therefore doesn't meet the definition of storage vessel.
GRP-TK5	S-179, S-180	40 CFR Part 63, Subpart EEEE	Tanks store material with an annual average true vapor pressure less than 0.1 psia, which does not meet the definition of "organic liquid" under MACT EEEE.
GRP-TK6	S-026, S-032, S-140	40 CFR Part 60, Subpart K	Constructed prior to 06/11/1973.
GRP-TK6	S-026, S-032, S-140	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK7	S-037, S-038, S-045, S-055, S-057, S-058, S-086	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
GRP-TK7	S-037, S-038, S-045, S-055, S-057, S-058, S-086	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
GRP-TK8	S-220, S-221, S-222, S-223	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure < 0.5psia
GRP-TK9	S-202, S-214, S-215, S-216, S-217, S-218	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-WW	S-198, WW1, WW10, WW14, WW2, WW3, WW5, WW7, WW8, WW9	40 CFR Part 60, Subpart Kb	Unit is a process tank which is excluded from the storage tank definition.
GRP-WW	S-198, WW1, WW10, WW14, WW2, WW3, WW5, WW7, WW8, WW9	40 CFR Part 63, Subpart EEEE	Wastewater is not included in the definition of "organic liquid" under MACT EEEE.
S-006	N/A	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
S-006	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-018	N/A	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
S-018	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-019	N/A	40 CFR Part 60, Subpart K	constructed prior to 06/11/1973
S-019	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-023	N/A	40 CFR Part 60, Subpart K	Constructed prior to 06/11/1973

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S-023	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-033	N/A	40 CFR Part 60, Subpart K	Constructed prior to 06/11/1973.
S-090	N/A	40 CFR Part 60, Subpart K	Constructed prior to 06/11/1973
S-090	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-143	N/A	40 CFR Part 60, Subpart Ka	MACT CC Group 1 tanks are not subject to NSPS K or Ka
S-143	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-144	N/A	40 CFR Part 60, Subpart Ka	Stores petroleum liquids with a RVP < 1.0 psia and TVP < 1.0 psia.
S-144	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-150	N/A	40 CFR Part 60, Subpart Ka	Stores petroleum liquids with RVP<1.0 psia and TVP<1.0 psia

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S-150	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-176	N/A	40 CFR Part 60, Subpart Ka	MACT CC Group 1 tanks are not subject to NSPS K or Ka
S-176	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-177	N/A	40 CFR Part 60, Subpart Ka	Stores petroleum liquids with RVP<1.0 psia and TVP<1.0 psia
S-183	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-184	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-186	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-187	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S-194	N/A	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure < 0.5 psia
S-194	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-200	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-204	N/A	40 CFR Part 60, Subpart Kb	Maximum True Vapor Pressure < 0.5 psia.
S-204	N/A	40 CFR Part 63, Subpart EEEE	Tanks are part of an affected source under another 40 CFR Part 63 subpart (MACT CC).
S-227	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels, including slop oil tanks and other auxiliary tanks, that are subject to 60.112b and associated requirements of 40 CFR Part 60, Subpart Kb, are not subject to the requirements of this section.

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S-228	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels, including slop oil tanks and other auxiliary tanks, that are subject to 60.112b and associated requirements of 40 CFR Part 60, Subpart Kb, are not subject to the requirements of this section.
S-229	N/A	40 CFR Part 61, Subpart FF	Vessel does not manage, treat, or store facility waste
S-229	N/A	40 CFR Part 61, Subpart Y	Vessel stores benzene that is not within the specific gravities defined in 40 CFR 61.270(a)
S-229	N/A	40 CFR Part 63, Subpart EEEE	Vessels are part of an affected source under another subpart of 40 CFR Part 63 (MACT 63)
S-229	N/A	40 CFR Part 63, Subpart F	The provisions of subpart F does not apply to petroleum refining process units
S-229	N/A	40 CFR Part 63, Subpart G	The provisions of subpart G does not apply to petroleum refining process units
S-229	N/A	40 CFR Part 63, Subpart H	The provisions of subpart H does not apply to petroleum refining process units
WW12	N/A	40 CFR Part 60, Subpart QQQ	MACT CC Group 1 streams are not required to comply with NSPS QQQ.

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
WW12	N/A	40 CFR Part 63, Subpart VV	Facility does not control air emissions from an oil-water and organic-water seperator for which another subpart of 40 CFR 60, 61, or 63 references
WW13	N/A	40 CFR Part 60, Subpart QQQ	MACT CC Group 1 streams are not required to comply with NSPS QQQ.
WW13	N/A	40 CFR Part 63, Subpart VV	facility does not control air emissions from an oil-water and organic-water seperator for which another subpart of 40 CFR 60, 61, or 63 references

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.: PSDTX861M3	Issuance Date: 12/20/2013
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.: 100135	Issuance Date: 01/26/2012
Authorization No.: 9708	Issuance Date: 12/20/2013
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.142	Version No./Date: 12/24/1998
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.533	Version No./Date: 07/04/2004
Number: 7	Version No./Date: 08/30/1988

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
1150-TANK-TXX4	PIPELINE B100 BLEND TANK	106.261/11/01/2003, 106.472/09/04/2000
1150-TANK-TXX5	PIPELINE B100 BLEND TANK	106.261/11/01/2003, 106.472/09/04/2000
1150-TANK-TXX6	PIPELINE B100 BLEND TANK	106.261/11/01/2003, 106.472/09/04/2000
1220-TANK-MXX1	RAIL FACILITY ULSD FLUSH TANKAGE	106.261/11/01/2003, 106.472/09/04/2000
1220-TANK-TXX1	TRUCK RACK B100 BLEND TANK	106.261/11/01/2003, 106.472/09/04/2000
1220-TANK-TXX2	TRUCK RACK B100 CERTIFICATION TANK	106.261/11/01/2003, 106.472/09/04/2000
1220-TANK-TXX3	TRUCK RACK B100 CERTIFICATION TANK	106.261/11/01/2003, 106.472/09/04/2000
1HTC1	NO. 1 HT COMPRESSOR K-202	9708, PSDTX861M3
1REFC1	NO. 1 REF COMPRESSOR K-201	9708, PSDTX861M3
2HTC1	NO. 2 HT COMPRESSOR K-1202	9708, PSDTX861M3
4HTC1	NO. 4 COMPRESSOR C-20001A	9708, PSDTX861M3
4HTC2	NO. 4 COMPRESSOR C-20001B	9708, PSDTX861M3
ADDITIVETK	BIODIESEL ADDITIVE TANK	106.261/11/01/2003, 106.472/09/04/2000
B-10	NO. 18 BOILER VENT	9708, PSDTX861M3
B-10	NO.18 BOILER	9708, PSDTX861M3
B-11	NO. 19 BOILER VENT	9708, PSDTX861M3
B-11	NO.19 BOILER	9708, PSDTX861M3
B-12	600# BOILER	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
B-12	600# BOILER VENT	9708, PSDTX861M3
B-13	GAS PLANT WASTE HEAT BOILER (I'6/93)	007/08/30/1988
B-22	BOILER NO. 22	9708, PSDTX861M3
B-4	NO. 11 BOILER VENT	9708, PSDTX861M3
B-4	NO.11 BOILER	9708, PSDTX861M3
B-5	NO. 12 BOILER VENT	9708, PSDTX861M3
B-5	NO.12 BOILER	9708, PSDTX861M3
B-6	NO. 13 BOILER VENT	9708, PSDTX861M3
B-6	NO.13 BOILER	9708, PSDTX861M3
B-7	NO.14 BOILER (OUT OF OPERATION FOR >5 YEARS)(I'92)	9708, PSDTX861M3
B-8	NO. 15 BOILER VENT	9708, PSDTX861M3
B-8	NO.15 BOILER	9708, PSDTX861M3
B-9	NO 16 BOILER VENT	9708, PSDTX861M3
B-9	NO.16 BOILER	9708, PSDTX861M3
CAS1	OILY SUMP #7 CAS	9708, PSDTX861M3
CAS2	CRUDE SUMP CAS	9708, PSDTX861M3
CAS3	TANK FARM CAS (150M2)	9708, PSDTX861M3
CAS4	TANK FARM CAS (150M1)	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
CAS5	P&T CRUDE SUMP 1	9708, PSDTX861M3
CAS6	P&T CRUDE SUMP 2	9708, PSDTX861M3
CAS7	RAILCAR SUMP	9708, PSDTX861M3
E-7	UNIFINER (CLARK) COMPRESSOR ENGINE	9708, PSDTX861M3
F-20	NO. 1 REFINERY COOLING TOWER	9708, PSDTX861M3
F-21	NO. 2 GASOLINE PLANT COOLING TOWER	9708, PSDTX861M3
F-47	NO 2 REFINERY COOLING TOWER	9708, PSDTX861M3
FCCUC2	FCCU COMPRESSOR 420-CX1	9708, PSDTX861M3
FL-1	NO. 1 MAIN REFINERY FLARE	9708, 106.476/09/04/2000, PSDTX861M3
FL-3	FCC FLARE	9708, 106.476/09/04/2000, PSDTX861M3
FL-4	HCU FLARE	9708, 106.476/09/04/2000, PSDTX861M3
FL-6	WASTEWATER FLARE	9708, PSDTX861M3
FL-7	BULK TERMINAL VAPOR COMBUSTOR	9708, PSDTX861M3
FL-8	NO. 2 MAIN REFINERY FLARE	9708, 106.476/09/04/2000, PSDTX861M3
FL-8	NO.2 REFINERY FLARE	9708, PSDTX861M3
FL-9	BRINE FLARE	9708, PSDTX861M3
F-MSATLOAD	RAIL CAR LOADING EQUIPMENT LEAK FUGITIVE COMPONENT	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
F-MSAT	REFORMER SPLITTER UNIT EQUIPMENT LEAK FUGITIVE COM	9708, PSDTX861M3
FUG-CC-VV	MACT CC FUGITIVES (EXISTING)	9708, 106.261/11/01/2003, PSDTX861M3
FUG-GGGA	GGGA FUGITIVES	9708, PSDTX861M3
FUG-LPG	PROPANE - FUGITIVE COMPONENTS	9708, PSDTX861M3
FWPMP-1	DRIVER FOR FIREWATER PUMP 1-BOILER HOUSE	9708, PSDTX861M3
FWPMP-2	DRIVER FOR FIREWATER PUMP 2-BOILER HOUSE	9708, PSDTX861M3
FWPMP-3	DRIVER FOR FIREWATER PUMP 3-PUMP HOUSE	9708, PSDTX861M3
FWPMP-4	DRIVER FOR FIREWATER PUMP 4-BULK STATION	9708, PSDTX861M3
H-11	NO 2 CRUDE HEATER VENT (ANDERSON)	9708, PSDTX861M3
H-11	NO.2 CRUDE CHARGE HEATER (ANDERSON)	9708, PSDTX861M3
H-13	GAS OIL FRACTIONATOR CHARGE HEATER VENT	9708, PSDTX861M3
H-13	GO FRACTIONATOR HEATER	9708, 106.183/09/04/2000, PSDTX861M3
H-14	UNIFINER CHARGE HEATER	9708, PSDTX861M3
H-14	UNIFINER CHARGE HEATER VENT	9708, PSDTX861M3
H-15	NO 1 HYDROTREATER REBOILER HEATER VENT (OLD CHG HT	9708, PSDTX861M3
H-15	NO. 1 NAP. HYDROTREATER DES2 REBOILER	9708, PSDTX861M3
H-17	NO. 3 HYDROTREATER CHARGE HEATER VENT	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
H-18	FORMER CHARGE HEATER(CHARGE 3,4 INTER-HTRS)	9708, PSDTX861M3
H-18	NO. 1 CCR CHARGE HEATER 1,3,4 VENT	9708, PSDTX861M3
H-18	NO.1 REFORMER CHARGE HEATER(CHARGE 3,4 INTER-HTRS)	9708, PSDTX861M3
H-1	NO. 1 CRUDE CHARGE HEATER VENT	9708, PSDTX861M3
H-1	NO.1 CRUDE CHARGE HEATER	9708, PSDTX861M3
H-22	NO. 2 NH3 PRIMARY REFORMER HEATER VENT	9708, PSDTX861M3
H-24	TAME UNIT NRU REGENERATION HEATER	9708, PSDTX861M3
H-26	NO. 2 VACUUM HEATER VENT	9708, PSDTX861M3
H-26	NO.2 VACUUM HEATER	9708, PSDTX861M3
H-27	PP MOL. SIEVE REGENERATION HEATER	9708, PSDTX861M3
H-27	PP MOL. SIEVE REGENERATION HEATER VENT	9708, PSDTX861M3
H-28	ACTIVE BUTANE OXYGENATE HEATER	9708, PSDTX861M3
H-28	CRYOGENIC MOL. SIEVE REGN. HEATER VENT	9708, PSDTX861M3
H-29	ASPHALT CIRC HEATER VENT (TKS 5501, 5502, 5503)	9708, PSDTX861M3
H-2	NO. 1 VACUUM CHARGE HEATER VENT	9708, PSDTX861M3
H-2	NO.1 VACUUM HEATER	9708, PSDTX861M3
H-30	ASPHALT TANK HEATER 5501, 5502, 506 STACKS (6)	9708, PSDTX861M3
H-30	ASPHALT TANK HEATERS 5501, 5502, 5503	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
H-31A	ASPHALT TANK HEATER 25, 26 STACKS	9708, PSDTX861M3
H-31B	ASPHALT TANK HEATER 27, 28 STACKS (2)	9708, PSDTX861M3
H-31B	ASPHALT TANK HEATERS 27, 28	9708, PSDTX861M3
H-32	ASPHALT TANK HEATERS 20M5, 20M6	9708, PSDTX861M3
H-32	ASPHALT TANK HEATERS 20M5, 20M6 STACKS	9708, PSDTX861M3
H-32C	ASPHALT TANK HEATER 20M7 STACKS	9708, PSDTX861M3
H-32C	ASPHALT TANK HEATERS 20M7	9708, PSDTX861M3
H-33	ASPHALT TANK HEATER 34, 121, 144, 551	9708, PSDTX861M3
H-33	ASPHALT TANK HTRS. 34, 121, 141, 551, 552	9708, PSDTX861M3
H-34	NO. 1 REFORMER STABILIZER REBOILER	9708, PSDTX861M3
H-34	NO. CCR REFORMER STABILIZER REBOILER HEATER VENTS	9708, PSDTX861M3
H-35	ASPHALT TANK HEATER 300M2	9708, PSDTX861M3
H-35	ASPHALT TANK HEATER 300M2 STACKS (4)	9708, PSDTX861M3
H-36	NO. 4 HYDROTREATER CHARGE HEATER VENT	9708, PSDTX861M3
H-36	NO.2 NAPHTHA HYDROTREATER CHARGE HEATER	9708, PSDTX861M3
H-37	NO. 2 NAPHTHA HYDROTREATER DES2 REBOILER	9708, PSDTX861M3
H-37	NO. 4 HYDROTREATER STRIP REBOILER HEATER	9708, PSDTX861M3
H-38	NO. 2 REFORMER CHARGE HTR (CHARGE 3, 4-INTER-HTRS)	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
H-38	NO. 3 REFORMER CHARGE HEATER VENT	9708, PSDTX861M3
H-38	REFORMER CHARGE HTR (CHARGE 3, 4-INTER-HTRS)	9708, PSDTX861M3
H-39	NO. 3 REFORM STAB REBOILER HEATER VENT	9708, PSDTX861M3
H-39	NO. 3 REFORMER STABILIZER REBOILER	9708, PSDTX861M3
H-40	NO. 1 PDA ASPHALT HEATER	9708, PSDTX861M3
H-40	NO. 1 PDA ASPHALT HEATER VENT	9708, PSDTX861M3
H-41	NO. 2 CRUDE CHARGE HEATER	9708, PSDTX861M3
H-42	HCU RECYCLE HEATER	9708, PSDTX861M3
H-42	HCU RECYCLE HEATER VENT	9708, PSDTX861M3
H-43	HCU DEC4 REBOILER HEATER	9708, PSDTX861M3
H-43	HCU DEC4 REBOILER HEATER VENT	9708, PSDTX861M3
H-45	NO. 1 HYDROTREATER CHARGE HEATER VENT	9708, PSDTX861M3
H-45	NO. 1 NAPHTHA HYDROTREATER CHARGE HEATER	9708, PSDTX861M3
H-45	NO.1 NAPHTHA HYDROTREATER CHARGE HEATER	9708, PSDTX861M3
H-46	NO. 1 CCR REF CHARGE HEATER 2 VENT	9708, PSDTX861M3
H-46	NO. 1 REFORMER (NO. 1 INTERHEATER)	9708, PSDTX861M3
H-46	NO.1 REFORMER (NO. 1 INTERHEATER)	9708, PSDTX861M3
H-48	DIESEL HDU CHARGE HEATER VENT	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
H-48	TURBINE FUEL HDSU HEATER	9708, PSDTX861M3
H-4	LATEX ASPHALT PREHEATER VENT	9708, PSDTX861M3
H-51	ASPHALT TANK HEATER 300M3	9708, PSDTX861M3
H-51	ASPHALT TANK HEATER 300M3 VENT	9708, PSDTX861M3
H-52	TRASH INCINERATOR VENT	9708, PSDTX861M3
H-55	NO. 1 AMMONIA PLANT START UP HEATER VENT	9708, PSDTX861M3
H-56	NO. 2 AMMONIA PLANT STARTUP HEATER VENT	9708, PSDTX861M3
H-5	NO. 2 APHALT HEATER VENT (NORTH)	9708, PSDTX861M3
H-64	NO. 4 HYDROTREATER CHARGE HEATER	9708, PSDTX861M3
H-6	DAGO HEATER	9708, PSDTX861M3
H-80	FCC GAS HDS CHARGE HEATER	9708, PSDTX861M3
H-88	ACID PLANT FEED HEATER	9708, PSDTX861M3
H-8	HCU FRACTIONATION HEATER VENT (N. PETRO CHEM)	9708, PSDTX861M3
H-8	NO. 3 CRUDE HEATER (N. PETROCHEM)	9708, PSDTX861M3
H-9	NO. 2 CRUDE HEATER (S. PETROCHEM)	9708, PSDTX861M3
H-9	NO. 2 CRUDE HEATER VENT (S. PETRO CHEM)	9708, PSDTX861M3
HCUC1	HCU COMPRESSOR 1801	9708, PSDTX861M3
HCUC2	HCU COMPRESSOR 1802	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
HCUC3	HCU COMPRESSOR 1803	9708, PSDTX861M3
HCUC4	HCU COMPRESSOR 1804	9708, PSDTX861M3
HDSC1	DHDSU COMPRESSOR	9708, PSDTX861M3
HDSC2	DHDSU COMPRESSOR K-3101	9708, PSDTX861M3
HDSC3	DHDSU COMPRESSOR K-3102	9708, PSDTX861M3
L-11	NEW TRUCK LOADING RACK	9708, 106.473/09/04/2000, PSDTX861M3
L-13	RAILCAR LOADING RACK	9708, 106.261/11/01/2003, 106.476/09/04/2000, PSDTX861M3
L-15	RAIL CAR LOADING RACK	9708, PSDTX861M3
L-2	ASPHALT TRUCK LOADING RACK (ASPHALTS)	9708, PSDTX861M3
L-7	ASPHALT RAILCAR RACK	9708, PSDTX861M3
OLYMP-BLRHS	OLYMPIAN -- BORDER HOUSE	9708, PSDTX861M3
OLYMP-MNOFC	OLYMPIAN -- EAST MAIN OFFICE	9708, PSDTX861M3
PENEXC1	PENEX BOOSTER COMPRESSOR 1	9708, PSDTX861M3
PENEXC2	PENEX BOOSTER COMPRESSOR 2	9708, PSDTX861M3
PENEXC3	PENEX RECYCLE COMPRESSOR	9708, PSDTX861M3
PROACID1	ACID PLANT MIST ELIMINATOR VENT	9708, PSDTX861M3
PROACID2	SULFURIC ACID PLANT STACK	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
PROFFTRMT	DEEP WELL INJECTION	9708, PSDTX861M3
RLEC1	RLE EMERGENCY ELECTRIC COMPRESSOR 1	9708, PSDTX861M3
RLEC2	RLE EMERGENCY ELECTRIC COMPRESSOR 2	9708, PSDTX861M3
RX-MSAT	REFORMER SPLITTER COLUMN	9708, PSDTX861M3
S-001	TANK 120M1	9708, PSDTX861M3
S-002	TANK 133	9708, PSDTX861M3
S-003	TANK 134	9708, PSDTX861M3
S-004	TANK 139	9708, PSDTX861M3
S-005	TANK 150M1	9708, PSDTX861M3
S-006	TANK 157	9708, PSDTX861M3
S-007	TANK 168	9708, PSDTX861M3
S-008	TANK 1001	9708, PSDTX861M3
S-009	TANK 1003	9708, PSDTX861M3
S-010	TANK 1501	9708, PSDTX861M3
S-011	TANK 1502	9708, PSDTX861M3
S-012	TANK 3001	9708, PSDTX861M3
S-013	TANK 3002	9708, PSDTX861M3
S-014	TANK 6701	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-015	TANK 6702	9708, PSDTX861M3
S-016	TANK 31	9708, PSDTX861M3
S-017	TANK 138	9708, PSDTX861M3
S-018	TANK 161	9708, PSDTX861M3
S-019	TANK 163	9708, PSDTX861M3
S-020	TANK 167	9708, PSDTX861M3
S-021	TANK 101	9708, PSDTX861M3
S-022	TANK 120M2	9708, PSDTX861M3
S-023	TANK 120M3	9708, PSDTX861M3
S-024	TANK 126	9708, PSDTX861M3
S-025	TANK 151	9708, PSDTX861M3
S-026	TANK 165	9708, PSDTX861M3
S-027	TANK 166	9708, PSDTX861M3
S-028	TANK 2	9708, PSDTX861M3
S-031	TANK 100M2	9708, PSDTX861M3
S-032	TANK 140	9708, PSDTX861M3
S-033	TANK 145	9708, 106.263/11/01/2001, PSDTX861M3
S-035	TANK 147	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-037	TANK 21	9708, PSDTX861M3
S-038	TANK 22	9708, PSDTX861M3
S-039	TANK 130	9708, PSDTX861M3
S-040	TANK 148	9708, PSDTX861M3
S-042	TANK 162	9708, PSDTX861M3
S-043	TANK 164	9708, PSDTX861M3
S-045	TANK 127	9708, PSDTX861M3
S-046	TANK 142	9708, PSDTX861M3
S-052	TANK 128	9708, PSDTX861M3
S-053	TANK 222	9708, PSDTX861M3
S-055	TANK 1	9708, PSDTX861M3
S-056	TANK 137	9708, PSDTX861M3
S-057	TANK 441	9708, PSDTX861M3
S-058	TANK 442	9708, PSDTX861M3
S-059	TANK 23	9708, PSDTX861M3
S-060	TANK 24	9708, PSDTX861M3
S-063	TANK 27	9708, PSDTX861M3
S-064	TANK 28	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-065	TANK 29	9708, PSDTX861M3
S-066	TANK 30	9708, PSDTX861M3
S-067	TANK 32	9708, PSDTX861M3
S-068	TANK 33	9708, PSDTX861M3
S-069	TANK 34	9708, PSDTX861M3
S-070	TANK 121	9708, PSDTX861M3
S-071	TANK 141	9708, PSDTX861M3
S-072	TANK 551	9708, PSDTX861M3
S-073	TANK 552	9708, PSDTX861M3
S-074	TANK 5501	9708, PSDTX861M3
S-075	TANK 5502	9708, PSDTX861M3
S-076	TANK 5503	9708, PSDTX861M3
S-086	TANK 143	9708, PSDTX861M3
S-090	TANK 4	9708, PSDTX861M3
S-095	TANK 100	9708, PSDTX861M3
S-102	TANK 501	9708, PSDTX861M3
S-137	TANK 20M5	9708, PSDTX861M3
S-138	TANK 20M6	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-139	TANK 125	9708, PSDTX861M3
S-140	TANK 181	9708, PSDTX861M3
S-141	TANK 182	9708, PSDTX861M3
S-143	TANK 5505	9708, PSDTX861M3
S-144	TANK 5504	9708, PSDTX861M3
S-150	TANK 300M1	9708, PSDTX861M3
S-168	N LUBE TANK (T-9)	9708, PSDTX861M3
S-173	3RD FROM S LUBE TANK (T-3)	9708, PSDTX861M3
S-174	2ND FROM S LUBE TANK (T-2)	9708, PSDTX861M3
S-175	SOUTH LUBE TANK (T-1)	9708, PSDTX861M3
S-176	TANK 200M1	9708, PSDTX861M3
S-177	TANK 300M2	9708, PSDTX861M3
S-179	LATEX TANK 1	9708, PSDTX861M3
S-180	LATEZ TANK 2	9708, PSDTX861M3
S-183	TANK 120M4	9708, PSDTX861M3
S-184	TANK 940T1	9708, PSDTX861M3
S-186	TANK 80M1	9708, PSDTX861M3
S-187	TANK 150M2	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-189	TANK 8501	9708, PSDTX861M3
S-190	TANK 8502	9708, PSDTX861M3
S-192	TANK 20M7	9708, PSDTX861M3
S-194	TANK 300M3	9708, PSDTX861M3
S-195	TANK T101	9708, PSDTX861M3
S-196	TANK T102	9708, PSDTX861M3
S-197	TANK T109	9708, PSDTX861M3
S-198	DGF EFFLUENT (TANK 111)	9708, PSDTX861M3
S-199	TANK T115	9708, PSDTX861M3
S-200	TANK 5506	9708, PSDTX861M3
S-201	TANK 30M1	9708, PSDTX861M3
S-202	TANK 100M3	9708, PSDTX861M3
S-203	TANK 150M3	9708, PSDTX861M3
S-204	TANK 150M4	9708, PSDTX861M3
S-209	TANK 200M2	9708, PSDTX861M3
S-210	TANK 200M3	9708, PSDTX861M3
S-211	TANK 150M5	9708, PSDTX861M3
S-212	TANK 150M6	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-213	TANK 100M4	9708, PSDTX861M3
S-214	TANK 100M5	9708, PSDTX861M3
S-215	TANK 100M6	9708, PSDTX861M3
S-216	TANK 100M7	9708, PSDTX861M3
S-217	TANK 100M8	9708, PSDTX861M3
S-218	TANK 100M9	9708, PSDTX861M3
S-219	TANK 100M10	9708, PSDTX861M3
S-220	TANK 50M1	9708, PSDTX861M3
S-221	TANK 50M2	9708, PSDTX861M3
S-222	TANK 25M1	9708, PSDTX861M3
S-223	TANK 25M2	9708, PSDTX861M3
S-227	910TK5M1	106.478/09/04/2000
S-228	910TK5M2	106.478/09/04/2000
S-229	BENZENE CONCENTRATE TANK	9708, PSDTX861M3
S-230	TANK 150M6	9708, PSDTX861M3
S-231	TANK 150M7	9708, PSDTX861M3
S-232	TANK 200M4	9708, PSDTX861M3
S-233	TANK 940-T2	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
S-234	TANK 200M5	9708, PSDTX861M3
S-235	TANK 200M6	9708, PSDTX861M3
S-236	TANK 150M8	9708, PSDTX861M3
S-237	TANK 150M9	9708, PSDTX861M3
SUBSTN 32	EAST OF SUBSTATION 32	9708, PSDTX861M3
UNIC1	UNIFIER COMPRESSOR C-103	9708, PSDTX861M3
V-13	SODA ASH SILO VENT	9708, PSDTX861M3
V-14	WATER TREATER LIME SILO VENT	9708, PSDTX861M3
V-15	BOILER HOUSE LIME SILO VENT	9708, PSDTX861M3
V-16	NO. 2 SULFUR PLANT INCINERATOR VENT (INCIN ONLY)	9708, PSDTX861M3
V-16	SRU NO. 2 INCINERATOR	9708, PSDTX861M3
V-18	NO. 1 REFORMER VENT	9708, PSDTX861M3
V-20	FCC STACK VENT	9708, PSDTX861M3
V-21	NO. 2 REFORMER VENT	9708, PSDTX861M3
V-29	SULFURIC ACID PLANT STACK	9708, PSDTX861M3
V-30	FCCU SPENT CATALYST BOXES	9708, PSDTX861M3
V-5	NO. 1 SRU VENT	9708, PSDTX861M3
V-5	SRU NO. 1 INCINERATOR	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
VT-10	V-116 MEA SWEET AMINE PUMP TANK VENT	9708, PSDTX861M3
VT-11	D05.1 MEA SWEET GLYCOL SURGE TANK VENT	9708, PSDTX861M3
VT-12	V-112 GP HEX MIR NEGP MEROX CAT ADD POT VENT	9708, PSDTX861M3
VT-13	GP HEXANE MEROX DISULIFIED SEPARATOR SPENT AIR VEN	9708, PSDTX861M3
VT-14	V-100 NC4 TREATER N-BUTANE SAND TANK VENT	9708, PSDTX861M3
VT-15	ISO-OCTENE ALCOHOL STRIPPER OH ACCUMULATOR VENT	9708, PSDTX861M3
VT-17	V-104 AP SPENT ACID FLASH TANK VENT	9708, PSDTX861M3
VT-18	V-107 AP 66% ACID DRYING TOWER VENT	9708, PSDTX861M3
VT-19	V-112 AP 98% ABSORBING TOWER VENT	9708, PSDTX861M3
VT-1	DEGAS DRUM VENT - #1 AND #2 SOUR WATER STRIPPERS	9708, PSDTX861M3
VT-20	F-101 AP BRINKS FILTER VENT	9708, PSDTX861M3
VT-21	NO 1 SWU STRIPPED SOUR WATER TANK VENT	9708, PSDTX861M3
VT-22	NO 2 SWU DEGAS DRUM VAPOR KO POT VENT	9708, PSDTX861M3
VT-23	#1 VACUUM UNTI OFF GAS ACCUMULATOR (210-V103)	9708, PSDTX861M3
VT-24	PDA BLOWDOWN DRUM/LCO WASH DRUM (V113)	9708, PSDTX861M3
VT-25	PDA BLOWDOWN DRUM/LCO WASH DRUM (V114)	9708, PSDTX861M3
VT-26	PDA LOW PRESSURE SUCTION DRUM (V111)	9708, PSDTX861M3
VT-27	ALKY DEGAS DRUM (V485)	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
VT-28	#1 HYDROTREATER DESULFURIZATION REFLUX DRUM (V102)	9708, PSDTX861M3
VT-29	#1 HYDROTREATER COMPRSSR KO POT BTMS TO FLR (V203)	9708, PSDTX861M3
VT-2	BOOSTER COMPRESSOR - UNIFINER	9708, PSDTX861M3
VT-30	#2 REF. K-1201 REC. COMP. SOUR OIL POTS (V1202A&B)	9708, PSDTX861M3
VT-31	DHDSU HIGH PRESSURE COLD SEPARATOR (V3204)	9708, PSDTX861M3
VT-32	DHDSU STRIPPER ACCUMULATOR (V3206)	9708, PSDTX861M3
VT-33	DHDSU REFLUX ACCUMULATOR (V106)	9708, PSDTX861M3
VT-34	HCU FEED DRUM (1206)	9708, PSDTX861M3
VT-35	HCU WASH WATER DRUM (V1207)	9708, PSDTX861M3
VT-36	HCU DEBUTANIZER REFLUX DRUM TO FLARE (V1220)	9708, PSDTX861M3
VT-37	RLE REFLUX ACCUMULATOR #2 DEC4 (V119)	9708, PSDTX861M3
VT-38	GDU CHYDRO COLUMN R101	9708, PSDTX861M3
VT-39	LOW TEMP GAS PLANT GLYCOL STILL OVHD ACC. (D08.19)	9708, PSDTX861M3
VT-3	ALKY DEGAS DRUM VENT	9708, PSDTX861M3
VT-40	PENEX STABILIZER RECEIVER (V452)	9708, PSDTX861M3
VT-41	#1 SOUR WATER UNIT KNOCK OUT POT (V109)	9708, PSDTX861M3
VT-4	P/P TREATING: MEA SURGE TANK VENT	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
VT-5	SOUR OIL POTS - #1 CCR	9708, PSDTX861M3
VT-6	LCO WASH DRUM	9708, PSDTX861M3
VT-6	V-20001 NO. 4 NAPTHA HT WATER INJECTION TANKS VENT	9708, PSDTX861M3
VT-7	420-V4 FCC INTERMITTENT BLOWDOWN DRUM VNT	9708, PSDTX861M3
VT-8	FCCU SOUR OIL POT VENT (OFF WGC)	9708, PSDTX861M3
VT-9	HCU COMPRESSOR DRAIN POT VENT	9708, PSDTX861M3
WW10	OILY THICKNER (TANK T113)	9708, PSDTX861M3
WW12	API SEPARATOR (TANK T105)	9708, PSDTX861M3
WW13	API SEPARATOR (TANK T106)	9708, PSDTX861M3
WW14	DGF TANK	9708, PSDTX861M3
WW1	PH ADJUSTMENT (TANK T104)	9708, PSDTX861M3
WW2	RECOVERED OIL TANK 1	9708, PSDTX861M3
WW3	RECOVERED OIL TANK 2	9708, PSDTX861M3
WW4	CT BLOWDOWN (TANK T103B)	9708, PSDTX861M3
WW5	DGF FROTH (TANK 112)	9708, PSDTX861M3
WW6	TREATED H20 HOLDING (TANK 113)	9708, PSDTX861M3
WW7	SPENT ACID TANK	9708, PSDTX861M3
WW8	SPENT CAUSTIC TANK	9708, PSDTX861M3

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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
WW9	CENTRIFUGE FEED (TANK T213)	9708, PSDTX861M3

Schedules

Compliance Schedule.....185

Compliance Schedule

Account No.	MR-0008-T	Permit Name	Valero McKee Refinery	Date	October 11, 2012

III. Compliance Schedule Section (Details)

A. Identification of Specific Situation of Noncompliance

Unit/Group/Process		Seq No	Pollutant	Applicable Regulatory Requirement	
ID No.	Type			Citation	Text Description
Sitewide	N/A	N/A	CO, NO_X, VOC, SO_2, and PM/PM_{10}	Title 30 TAC § 116.116(b)(1)(B) & (C)	Do not vary from any representation without obtaining a permit amendment for a change in the character of the emissions or an increase in the emissions rate.

B. Identification of Method Utilized to Assess Compliance Status and Location of Records Documenting Situation Details

Method Used to Assess Compliance		Location of Records Documenting Situation Details
Compliance Method Citation	Text Description	
Title 30 TAC § 116.116(b)(1)(B) & (C)	Do not vary from any representation without obtaining a permit amendment for a change in the character of the emissions or an increase in the emissions rate.	Environmental Department Files

C. Brief Description of the Noncompliance Situation

Valero's source representations during the July 2010 de-flex process were incorrect for actual operating conditions; thereby causing sources to be out of compliance with NSR representations.

D. Brief Description of Corrective Action Plan

Obtain proper authorization of the CO, NO_X, VOC, SO_2, and PM/PM_{10} representations and emissions for non-compliant sources through an amendment to the NSR permit.

E. List of Activities/Milestones to Implement the Corrective Action Plan

1	Complete review of correct emission representations.
2	Submit NSR amendment application.
3	Complete NSR permit amendment process.
4	Submit a revision to the FOP if necessary once NSR authorization is approved for changes to applicable requirements identified in the FOP. Submit such a revision within the timeline specified in 30 TAC Chapter 122.

F. Previously Submitted Compliance Plan(s)	Type of Action	Date Submitted
	N/A	N/A

G. Schedule for Submitting Progress Reports	Submitted with semiannual deviation report beginning with the first report after permit renewal.

Appendix A

Acronym List 187

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
COMS ..... continuous opacity monitoring system
CVS ..... closed-vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
DR ..... Designated Representative
ElP ..... El Paso (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
GF ..... grandfathered
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MMBtu/hr ..... Million British thermal units per hour
MRRT ..... monitoring, recordkeeping, reporting, and testing
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
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
PM ..... particulate matter
ppmv ..... parts per million by volume
PSD ..... prevention of significant deterioration
RO ..... Responsible Official
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 189

Permit Numbers 9708 and PSDTX861M3 210

Major NSR Summary Table

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY) ** **	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
B-10	No 18 Boiler	NOx	8.73	38.22	36 37 46	37 43 44 45 46 68	37 68
		CO	34.12	66.33			
		VOC	1.21	5.28			
		SO2	2.32	10.16			
		PM/PM10/PM2.5	1.67	7.30			
B-11	No. 19 Boiler	NOx	8.73	38.23	36 37 46	37 43 44 45 46 68	37 68
		CO	18.93	82.93			
		VOC	1.21	5.28			
		SO2	2.32	10.16			
		PM/PM10/PM2.5	1.67	7.30			
B-12	600# Boiler	NO_x	49.28	172.69	36 37 46	37 43 44 46	37
		CO	20.85	73.05			
		VOC	1.33	4.66			
		SO_2	5.84	11.91			
		PM	1.84	6.43			

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
B-22	Boiler B-22	NOx	3.38	9.86	2 36 37 38 46	2 43 44 37 38 46	2 37
		CO	15.95	34.92			
		VOC	1.21	5.31			
		SO2	5.05	10.22			
		PM	1.68	7.34			
B-4	No. 11 Boiler	NO_x	17.01	59.59	35 36 46	35 43 44 46	35
		CO	7.57	18.32			
		VOC	0.48	1.59			
		SO_2	1.78	2.35			
		PM	0.67	2.18			
B-6	No. 13 Boiler	NO_x	17.24	60.42	35 36 46	35 43 44 46 68	35 68
		CO	6.95	17.59			
		VOC	0.44	1.55			
		SO_2	1.81	2.30			
		PM	0.61	2.14			
B-8	No. 15 Boiler	NO_x	9.40	32.94	35 36 46	35 43 44 45 46 68	35 68
		CO	25.20	46.45			
		VOC	0.84	2.34			
		SO_2	3.22	4.05			
		PM	1.17	3.23			

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
B-9	No. 16 Boiler	NO_x	13.16	32.94	36 37 46	37 43 44 45 46 68	37 68
		CO	13.26	46.45			
		VOC	0.84	2.96			
		SO_2	3.61	5.57			
		PM	1.17	4.08			
H-1	No. 1 Crude Charge Heater	NO_x	18.59	46.46	36 37 46	37 43 44 45 46	37
		CO	21.95	82.33			
		VOC	1.67	6.26			
		SO_2	6.96	12.04			
		$PM/PM_{10}/PM_{2.5}$	2.31	8.66			
H-11	No. 2 Crude Charge Heater (Anderson)	NO_x	3.87	14.23	35 36 46	35 43 44 46	35
		CO	6.53	24.01			
		VOC	0.50	1.83			
		SO_2	2.07	3.51			
		$PM/PM_{10}/PM_{2.5}$	0.69	2.52			
H-13	Gas Oil Frac. Heater	NO_x	4.00	17.52	36 46	43 44 46	
		CO	2.83	12.41			
		VOC	0.22	0.94			
		SO_2	0.90	1.82			
		$PM/PM_{10}/PM_{2.5}$	0.30	1.31			

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-14	Unifiner Charge Heater	NO_x	2.60	11.38	36 46	43 44 46	
		CO	1.88	8.23			
		VOC	0.14	0.63			
		SO_2	0.60	1.20			
		PM	0.20	0.87			
H-15	No. 1 Hydrotreater Charge Heater	NO_x	1.63	7.12	36 46	43 44 46	
		CO	2.56	11.21			
		VOC	0.19	0.85			
		SO_2	0.81	1.64			
		PM	0.27	1.18			
H-18	C.C.R. Charge Heater	NO_x	17.96	52.81	36 37 46	37 43 44 45 46	37
		CO	26.28	33.37			
		VOC	1.94	6.47			
		SO_2	8.07	12.44			
		$PM/PM_{10}/PM_{2.5}$	2.68	8.94			
H-2	No. 1 Vacuum Charge Heater	NO_x	3.08	11.52	2 35 36 46	2 35 43 44 45 46	2 35
		CO	6.24	11.66			
		VOC	0.47	1.77			
		SO_2	1.98	3.41			
		$PM/PM_{10}/PM_{2.5}$	0.66	2.45			

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-26	No. 2 Vacuum Charge Heater	NO_x	4.06	15.76	35 36 46	35 43 44 46	35
		CO	6.54	25.38			
		VOC	0.50	1.93			
		SO_2	2.07	3.71			
		$PM/PM_{10}/PM_{2.5}$	0.69	2.67			
H-27	"P/P" Mole Sieve Regeneration Heater	NO_x	1.35	0.76	36 46	43 44 46	
		CO	0.81	0.65			
		VOC	0.05	0.04			
		SO_2	0.22	0.22			
		$PM/PM_{10}/PM_{2.5}$	0.07	0.06			
H-28	Active Butane Oxygenate Heater	NO_x	1.16	5.08	36	43 44	
		CO	1.00	3.25			
		VOC	0.06	0.28			
		SO_2	0.33	1.45			
		PM	0.09	0.39			
H-30	Asphalt Tank Heaters (5501 and 5502)	NO_x	2.54	11.12	36	43 44	
		CO	0.82	3.57			
		VOC	0.05	0.23			
		SO_2	0.27	1.18			
		PM	0.07	0.31			

Permit Number: 9708 and PSDTX861M3 (Issuance Date: 12/20/2013)							
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-31B	Tanks 27, 28 Heater	NO_x	0.44	1.92	36	43 44	
		CO	0.14	0.62			
		VOC	0.01	0.04			
		SO_2	0.05	0.20			
		PM	0.01	0.05			
H-32	Tank Heaters (“20MS” and “20M6”)	NO_x	0.80	3.50	36	43 44	
		CO	0.56	2.46			
		VOC	0.04	0.16			
		SO_2	0.19	0.82			
		PM	0.05	0.22			
H-32C	Asphalt Tank Heater “20M7”	NO_x	0.33	1.43	36	43 44	
		CO	0.28	1.23			
		VOC	0.02	0.08			
		SO_2	0.09	0.41			
		PM	0.02	0.11			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-33	Tank Heaters 34, 551, 121, 141, and 552	NO_x	1.99	8.74	36	43 44	
		CO	1.40	6.16			
		VOC	0.09	0.39			
		SO_2	0.46	2.04			
		PM	0.12	0.54			
H-34	C.C.D.R. Stabilizer Reboiler Heater	NO_x	3.08	20.45	36	43 44	
		CO	2.17	8.68			
		VOC	0.14	0.59			
		SO_2	0.68	1.21			
		PM	0.19	0.81			
H-35	Tank "300M2" Heaters (4 Stacks)	NO_x	1.59	6.99	36	43 44	
		CO	1.12	4.93			
		VOC	0.07	0.31			
		SO_2	0.37	1.63			
		PM	0.10	0.43			
H-36	No. 2 Naphtha Hydrotreater Charge Heater	NO_x	1.78	7.80	35 36 46	35 43 44 46	35
		CO	4.07	8.92			
		VOC	0.31	1.36			
		SO_2	1.29	2.61			
		PM	0.43	1.88			

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-37	No. 2 Naphtha Hydrotreater DeS2 Reboiler	NO_x	6.40	15.97	36 46	43 44 46	
		CO	4.53	11.32			
		VOC	0.34	0.86			
		SO_2	1.44	1.66			
		PM	0.48	1.19			
H-38	#2 Reformer Charge Heater	NO_x	13.58	42.07	36 37 67	37 43 44 67 69	37 67
		CO	24.66	66.50			
		VOC	1.88	5.82			
		SO_2	7.82	11.18			
		PM	2.59	8.04			
H-39	#2 Reformer Stabilizer Reboiler Heater	NO_x	3.47	12.78	36 46	43 44 46	
		CO	2.05	7.55			
		VOC	0.16	0.57			
		SO_2	0.65	1.10			
		$PM/PM_{10}/PM_{2.5}$	0.22	0.79			
H-40	P.D.A. Asph. Htr.	NO_x	10.21	37.17	35 36 46	35 43 44 46	35
		CO	5.65	10.29			
		VOC	0.43	1.56			
		SO_2	1.79	3.01			
		PM	0.59	2.16			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-41	No. 2 Crude Charge Heater	NO_x	16.40	71.83	36 37 46	37 43 44 46	37
		CO	21.92	36.49			
		VOC	1.67	7.31			
		SO_2	6.95	14.05			
		PM	2.31	10.10			
H-42	Hydrocracker Recycle Heater	NO_x	4.06	15.28	35 36 46	35 43 44 46	35
		CO	7.01	13.2			
		VOC	0.53	2.01			
		SO_2	2.22	3.86			
		$PM/PM_{10}/PM_{2.5}$	0.74	2.78			
H-43	Hydrocracker "DEC4" Reboiler Heater	NO_x	3.31	14.49	35 36 46	35 43 44 46	35
		CO	6.17	13.51			
		VOC	0.47	2.06			
		SO_2	1.96	3.95			
		PM	0.65	2.84			
H-45	#1 Hydrotreater Charge Heater	NO_x	2.66	11.67	35 36 46	35 43 44 46	35
		CO	4.97	10.88			
		VOC	0.38	1.66			
		SO_2	1.57	3.18			
		PM	0.52	2.29			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-46	C.C.R. Interheater	NO_x	9.53	32.77	36 37 46	37 43 44 46	37
		CO	17.53	60.27			
		VOC	1.12	3.84			
		SO_2	4.66	8.79			
		$PM/PM_{10}/PM_{2.5}$	1.54	5.31			
H-48	Diesel Hydrotreater Charge Heater	NO_x	3.42	14.98	35 36 46 67	35 43 44 46 67	35 67
		CO	6.73	14.74			
		VOC	0.51	2.24			
		SO_2	2.13	4.31			
		$PM/PM_{10}/PM_{2.5}$	0.71	3.10			
H-51	Asphalt Tank Heater300M3 (4 Stacks)	NO_x	0.53	2.33	36	43 44	
		CO	1.12	4.93			
		VOC	0.07	0.31			
		SO_2	0.37	1.63			
		PM	0.10	0.43			
H-6	Dago Heater	NO_x	3.39	14.87	36 46	43 44 46	
		CO	2.01	8.78			
		VOC	0.15	0.67			
		SO_2	0.64	1.28			
		PM	0.21	0.92			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-64	No. 4 Hydrotreater Charge Heater	NO_x	1.26	5.54	2 36	2 43 44	2
		CO	2.36	5.16			
		VOC	0.18	0.79			
		SO_2	0.75	1.51			
		PM	0.25	1.09			
H-8	HCU FracCharge Heater (Petrochem North)	NO_x	4.69	20.52	35 36	35 43 44	35
		CO	6.26	27.43			
		VOC	0.48	2.09			
		SO_2	1.99	4.01			
		PM	0.66	2.88			
H-80	FCC Gas HDS Charge Heater	NO_x	3.05	13.36	35 36 46 66	35 43 44 46 66	35 66
		CO	6.97	30.54			
		VOC	0.53	2.32			
		SO_2	2.21	4.47			
		PM	0.73	3.21			
H-88	Acid Plant Feed Heater	NO_x	0.79	3.46	36	43 44	
		CO	0.48	0.43			
		VOC	0.03	0.03			
		SO_2	0.16	0.50			
		PM	0.04	0.04			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
H-9	No 2 Crude Heater – (Petrochem South)	NO_x	3.18	13.94	35 36 46	35 43 44 46	35
		CO	6.26	13.72			
		VOC	0.48	2.09			
		SO_2	1.99	4.01			
		PM	0.66	2.88			
F-20	No. 1 Refinery Cooling Tower	VOC	3.52	15.40	30 31	30 31 43 44	31
		PM	3.06	13.41			
		PM_{10}	0.51	2.24			
		$PM_{2.5}$	<0.01	0.02			
F-21	Gasoline Plant Cooling Tower (4)	VOC	2.90	12.69	30 31	30 31 43 44	31
		PM	2.54	11.13			
		PM_{10}	0.42	1.83			
		$PM_{2.5}$	0.0033	0.015			
F-47	No. 2 Refinery Cooling Tower	VOC	2.28	9.97	30 31	30 31 43 44	31
		PM	2.16	9.48			
		PM_{10}	0.30	1.29			
		$PM_{2.5}$	0.003	0.012			

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
E-7	Unifiner Engine (Clark)	NO_x	4.56	19.98		43 44	
		CO	0.08	0.36			
		VOC	0.17	0.76			
		SO_2	0.01	0.01			
		PM	0.07	0.29			
		PM_{10}	0.07	0.29			
		$PM_{2.5}$	0.07	0.29			
FL-9	Brine Degas Drum	NO_x	8.21	0.99	36	43 44	
		CO	16.38	1.98			
		VOC	30.15	5.52			
		SO_2	0.01	0.01			
FL-6	Wastewater Flare	NO_x	2.09	4.59	1 15 36	1 15 43 44	1
		CO	10.66	23.38			
		VOC	5.00	10.94			
		SO_2	2.03	1.33			
		H_2S	0.02	0.01			
		NH_3	<0.01	<0.01			
FL-1, FL-3, FL-4, and FL-8	Combined Compliance Annual Caps for Flares FL-1, FL-3, FL-4, and FL-8 (11)	NOx	40.46	34.31	1 15 36 60	1 15 43 44 60	1
		CO	210.06	190.66			
		VOC	352.09	179.46			
		SO_2	19.05	15.69			
		H_2S	6.07	0.27			

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
FGR-SUMP	FGR Oil Water Sump	VOC	0.03	0.07	20	20 43 44	20
FL-7	Loading Rack Vapor Combustor	NO_x	6.12	13.24	8 16 35 36 66	8 13 16 35 43 44 66	35 66
		CO	17.79	36.42			
		VOC	18.01	16.53			
		SO_2	0.13	0.09			
L-13	Railcar Loading Rack	VOC	0.25	0.15	11	13 43 44	10
L-14	North Railcar Rack	VOC	18.35	0.81	11	13 43 44	10
L-2	Asphalt Truck Loading Rack	VOC	4.49	2.28	11	13 43 44	10
L-5/L-11	Railcar Rack (Diesel)	VOC	13.15	17.23	8 11 66	8 13 43 44 66	10 66
L-7	Asphalt Railcar Rack	VOC	0.42	1.37	11	13 43 44	10
V-29	Sulfuric Acid Plant Vent	SO_2	21.67	70.17	35 37	35 37 43 44	35 37

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
V-20	F.C.C.U. (Fluidized Catalytic Cracking Unit)	NO_x	220.11	163.36	1 33 35 37	1 35 37 43 44	1 35 37
		CO	37.80	93.07			
		VOC	10.55	38.19			
		SO_2	459.69	138.69			
		PM	80.00	294.02			
		PM_{10}	80.00	294.02			
		$PM_{2.5}$	80.00	294.02			
		NH_3 (9)	40.74	146.00			
		H_2SO_4	12.40	41.98			
V-18	No. 1 Reformer Cat Regenerator Vent	CO	3.27	14.31	35	35 43 44	35
		VOC	0.62	2.72			
V-21	No. 2 Reformer Cat Regenerator Vent	CO	70.00	3.36	35	35 43 44	35
		VOC	0.032	<0.01			
V-13	Soda Ash Silo	$PM/PM_{10}/PM_{2.5}$	0.09	0.02	42	42 43 44	
V-14	Lime Silo Vent	$PM/PM_{10}/PM_{2.5}$	0.09	0.02	42	42 43 44	
V-17	FCC Catalyst Silo Vent	PM	0.01	0.01		43 44	

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
V-5	SRU No. 1 Incinerator	NO_x	0.40	1.75	2 23 24 35 37	2 23 25 35 37 43 44 45	2 35 37
		CO	1.87	8.20			
		VOC	0.19	0.82			
		SO_2	10.69	46.84			
		H_2S	0.11	0.50			
		$PM/PM_{10}/PM_{2.5}$	0.38	1.67			
V-16	SRU No. 2 Incinerator	NO_x	0.56	2.45	2 23 24 35 37	2 23 25 35 37 43 44	2 35 37
		CO	13.66	59.82			
		VOC	0.20	0.87			
		SO_2	10.96	48.01			
		H_2S	0.12	0.51			
		$PM/PM_{10}/PM_{2.5}$	0.84	3.68			
V-30	FCCU Spent Catalyst Roll Off Boxes	PM_{10}	<0.01	<0.01		43 44	
		$PM_{2.5}$	<0.01	<0.01			

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Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
S-044	Tank 144	Caustic	0.01	0.01		43 44	
S-142	Tank 232	Caustic	0.01	0.01		43 44	
CARBON CAN	Carbon Canister System Fugitives (CAS1 - CAS7 & FGR-SUMP)	VOC	5.04	11.04	20	20 43 44	20
S-001, S-002, S-003, S-004, S-005, S-006, S-007, S-008, S-009, S-010, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-018, S-019, S-020, S-021, S-022, S-023, S-024, S-025, S-026, S-027, S-028, S-031, S-032, S-033, S-035, S-037, S-038, S-039, S-040, S-042, S-043, S-045, S-046, S-049, S-052, S-053, S-055, S-056, S-057, S-058, S-059, S-060, S-063, S-064, S-065, S-066, S-067, S-068, S-069, S-070, S-071, S-072, S-073, S-074, S-075, S-076, S-086, S-090, S-095, S-137, S-138, S-139, S-140, S-141, S-143, S-144, S-150, S-168, S-173, S-174, S-175, S-176, S-177, S-179, S-180, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-200, S-202, S-203, S-204, S-218, S-229	Sub cap for Storage Tanks	VOC	141.70	380.94	4 7 53 54 66	4 43 44 53 54 66	7 66

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
S-001, S-002, S-003, S-004, S-006, S-007, S-008, S-009, S-010, S-012, S-013, S-014, S-020, S-022, S-023, S-027, S-031, S-032, S-037, S-038, S-042, S-043, S-045, S-052, S-053, S-055, S-059, S-070, S-071, S-075, S-095, S-137, S-138, S-141, S-143, S-144, S-150, S-176, S-177, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-199, S-200, S-202, S-203, S-208, S-218, S-227, S-228, S-230, S-231, S-232, S-233, S-234, S-235, S-236, S-237	Subcap for Crude Expansion Tanks	VOC	91.28	225.35	4 53 54 66	4 43 44 53 54 66	66
F-1CRUDE, F-1REF_HT, F-2CRUDE, F-2REF_HT, F F-4HT, F-85, F-HCU, F-ALKY_PDA, F-ASPHALT, F-BRINE, F-C4ISOM, F-CASING, F-CAVERN, F-FGR, F-DESALT, F-DHDSU, F-ETNKFRM, F-FCCU, F-GASBLD, F-GASPLT, F-GHDS, F-HDS_GOF, F-LPG, F-IOCTENE, F-NBULKLD, F-NTNKFRM, F-ORU, F-PENEX, F-PSA, F-PUMPSTA, F-RAILLOAD, F-RLE, F-SBULKLD, F-SRU1, F-SRU2, F-SWS, F-UNIFINER, F-WTNKFRM, F-MSAT, F-WWTP, F-AMINE2, F-MSATLOAD, F-ALKY, F-SUMP, REMEDFUG, TKOW3FUG, TKOW15FUG, 2021FUG, 2022FUG	VOC Sub cap for Fugitives (5)	VOC	175.44	753.08	2 20 21	2 20 21 43 44	2 20 21
Various	H_2S Fugitives (5)	H_2S	1.95	8.55	22	22	
Various	NH_3 Process Vents, Fugitives, and Maintenance	NH_3	800.40	164.80	22	22	

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
OW3	Remediation Mix Oil Tank	VOC	0.01	0.03	4 54	4 43 44 54	
OW15	Remediation Mix Oil Tank	VOC	0.01	0.03	4 54	4 43 44 54	
TK-2020	Remediation Mix Oil Tank	VOC	0.47	0.26	4 54	4 43 44 54	
TK-2021	Remediation Mix Oil Tank	VOC	0.02	0.05	4 54	4 43 44 54	
TK-2022	Remediation Mix Oil Tank	VOC	0.02	0.05	4 54	4 43 44 54	
OW3VACTR	Remediation Vac Truck	VOC	0.63	0.03	55	43 55	
OW15VACTR	Remediation Vac Truck	VOC	0.63	0.03	55	43 55	
2021VACTR	Remediation Vac Truck	VOC	0.63	0.03	55	43 55	
2022VACTR	Remediation Vac Truck	VOC	0.63	0.03	55	43 55	
1220TKMXX1	Rail Facility ULSD Flush Tankage	VOC	0.02	0.01	4 54	4 43 44 54	
1220TKTXX1	Truck Rack B100 Blend Tank	VOC	4.99	0.74	4 54	4 43 44 54	
1220TKTXX2	Truck Rack B100 Certification Tank	VOC	4.99	1.46	4 54	4 43 44 54	

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
1220TKTXX3	Truck Rack B100 Certification Tank	VOC	4.99	0.74	4 54	4 43 44 54	
1150TKTXX4	Pipeline B100 Blend Tank	VOC	4.99	0.74	4 54	4 43 44 54	
1150TKTXX5	Pipeline B100 Blend Tank	VOC	4.99	0.74	4 54	4 43 44 54	
ADDITIVETK	Biodiesel Additive Tank	VOC	0.31	0.03	4 54	4 43 44 54	
MSS_ABRLS	Abrasive Blasting Operation	PM	0.54	0.54		43 64	
		PM_{10}	0.07	0.07			
		$PM_{2.5}$	< 0.01	< 0.01			
Various	Maintenance Emissions Cap	VOC	3926.35	49.72	50 51 52 53 54 55 58 59 60	43 44 49 50 51 52 53 54 55 56 58 59 60 62	
		NO_x	101.41	2.55			
		CO	654.79	7.60			
		SO_2	1768.80	6.13			
		H_2S	19.31	0.05			
		HCl	4.00	<0.01			
		NH_3	700.00	0.95			
		PM	1.98	0.40			

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			(lb/hr)	**(TPY)****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
OX-001	Wastewater Sludge Centrifuge	NO_x	0.01	0.01		43 44	
		CO	0.14	0.63			
		VOC	0.01	0.01			
		SO_2	0.15	0.67			

NSR Footnotes:

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid
HCl - hydrogen chloride
NH_3 - 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) FCCU contribution to the ammonia cap.

Permit Numbers 9708 and PSDTX861M3

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT

A Permit Is Hereby Issued To
Diamond Shamrock Refining Company, L.P.
Authorizing the Construction and Operation of
Valero Mckee Refinery
Located at **Sunray, Moore County, Texas**
Latitude 35° 56′ 54″ Longitude 101° 53′ 30″

Permit: 9708

Amendment Date : December 20, 2013

Renewal Date: October 1, 2014

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 116.116 (30 TAC 116.116)]
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(a), (b) and (c)]
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)(iii)]
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; comply with any additional recordkeeping requirements specified in special conditions attached to 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)]
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 for upsets and maintenance 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, regulations, 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 a condition of "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.

Special Conditions

Permit Numbers 9708 and PSDTX861M3

EPA Consent Decree SA-05-CA-0569 Requirements

1. The full list of federal rule applicability for this site may be found in Federal Operating Permit Number O1555. The U.S. Environmental Protection Agency (EPA) Consent Decree SA-05-CA-0569 requires that the following specific federal requirements be included in this permit: **(09/11)**

   These facilities shall comply with all applicable requirements of the EPA regulation on Standards of Performance for New Stationary Sources in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) as follows:

   Subpart A - General Provisions

   Subpart H - Standards of Performance for Sulfuric Acid Plants

   Subpart J- Standards of Performance for Petroleum Refineries [applicable to the Fluidized Catalytic Cracking Unit (FCCU) for emissions of carbon monoxide (CO), sulfur dioxides (SO_2), and particulate matter (PM) and opacity limitations]

   Standards of Performance for Petroleum Refineries [applicable to the:

   - No. 1 Main Flare (FL-1) effective 01/01/2012
   - FCCU Flare (FL-3) effective 01/01/2012
   - HCU Flare (FL-4) effective 01/01/2012
   - Wastewater Flare (FL-6) effective 01/01/2009
   - No. 2 Main Flare (FL-8) effective upon startup for emissions of sulfur oxides (SO_x) limitations. [Note: No. 2 Main Flare (FL-8) is subject to Subpart Ja since it was constructed after Subpart Ja applicability date].

New Source Performance Standards

2. Upon startup of the represented modifications in the Crude Expansion Project, the following facilities shall comply with all applicable requirements of 40 CFR Part 60: **(12/13)**

   Subpart A -General Provisions
   Subpart Ja - Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 [applicable to the:

   - No. 1 SRU
   - No. 2 SRU
   - Boiler B-22
   - No. 2 Vacuum Heater (H-2)
   - No. 4 Hydrotreater Charge Heater (H-64) – SO_2 emissions only]

Subpart GGGa - Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 [applicable to the:

- No. 1 Crude Unit/Dehexanizer (EPN F-1CRUDE)
- No. 2 Crude Unit (EPN F-2CRUDE)
- Refinery Light Ends (EPN F-RLE)
- No. 4 Naphtha Fractionator (EPN F-4HT)
- Hydrocracker (EPN F-HCU)
- Turbine Merox (EPN F-GASPLT)
- Diesel Hydrodesulfurization Unit (EPN F-DHDSU)
- Gasoline Hydrodesulfurization Unit (EPN F-GHDS)
- No. 1 SRU (EPN F-SRU1)
- No. 2 SRU (EPN F-SRU2)
- Wastewater Treatment Plant (EPN F-WWTP)
- East Tank Farm (EPN F-ETNKFRM)
- North Tank Farm (EPN F-NTNKFRM)
- West Tank Farm (EPN F-WTNKFRM)

Emission Caps and Individual Limitations

3. This permit authorizes emissions only from those points listed in the attached table entitled "Attachment I - Source Categories, Emission Point Numbers and Source Names," and the facilities covered by this permit are authorized to emit subject to the emission rate limits on the attached table entitled "Emission Sources –Maximum Allowable Emission Rates" and other operating conditions specified in this permit. **(12/13)**

Storage of Volatile Organic Compounds (VOC)

4. Storage tanks are subject to the following requirements: The control requirements specified in parts A-C of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.50 psia at the maximum feed temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons. **(12/13)**

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

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

      (2) An open-top tank shall contain a floating roof (external floating roof tank) which uses double seal or secondary seal technology provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the

secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight.

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

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

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

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

Emissions from tanks shall be calculated using the methods that were used to determine the MAERT limits in the permit amendment application (PI-1 dated December 10, 2012). Sample calculations from the application shall be attached to a copy of this permit at the plant site.

5. The following requirements apply to the new floating roof tanks EPNs: S-232, S-236, S-237, S-230, S-231, S-233, and S-235. **(12/13)**

A. Tanks shall be constructed with a sloped bottom and a sump that can be emptied to less than 1 percent of its nominal volume. The mesa floor tank design is an acceptable alternative for a drain dry tank.

B. Tanks shall be constructed or equipped with the capability for connection to a vapor recovery system that routes vapors from the vapor space under the landed roof to a control device.

C. The tanks' outlet to the vapor recovery system shall be located at a height from the tank floor no less than 90 percent of the tank roof's leg height, or be of such a design that demonstrably allows the control of no less than 90 percent of the vapors generated under the floating roof during tank re-filling.

6. Carbon Adsorption Systems that are used to control emissions from storage tanks, sumps, or other equipment shall meet the requirements in Special Condition 59.A. **(12/13)**

Loading of Volatile Organic Compounds (VOC)

7. Loading operations at the Truck Loading Rack (EPN L-11) and Railcar Racks (EPNs L-5, L-13, and L-14) are limited to the liquids identified below at the rates indicated. **(12/13)**

EPN	Liquid	Loading Rate (gallons/hour)
L-11	Gasoline	54,000
L-11	Diesel/Biodiesel/Turbine Fuel	60,000 **(12/13)**
L-11	Denatured Ethanol	5,400 **(02/13)**
L-13/L-14	Diesel/Biodiesel/Turbine Fuel	60,000 **(12/13)**
L-5	Diesel/Biodiesel/Turbine Fuel	25,500 **(12/13)**

8. The permittee shall not allow gasoline to be loaded into a tank truck or railcar unless the tank truck or railcar has passed a leak-tight test within the past 12 months. Certification of testing shall be presented for each vessel which demonstrates that the vessel passed a leak test conforming to the requirements of 40 CFR Part 63, Subpart R.

   All tank trucks loading other materials with a vapor pressure greater than 0.5 psia at this facility shall be leak-tight tested a minimum of once per year using the method described in the EPA regulations in 40 CFR Part 60, Subparts A and XX on Standards of Performance for New Stationary Sources promulgated for Bulk Gasoline Terminals.

9. When loading materials at locations other than the Asphalt Truck Loading Rack (EPN L-2), the following requirements shall apply: **(10/12)**

   A. Emissions from loading materials having a vapor pressure greater than or equal to 0.5 psia at the maximum loading temperature shall be routed to the Vapor Combustion Unit (VCU) (EPN FL-7).

   B. All emissions from loading materials at the Truck Loading Rack (EPN L-11) shall be routed to the VCU (EPN FL-7).

   C. The VCU (EPN FL-7) shall meet the requirements of Maximum Available Control Technology Subpart R for Gasoline Loading (emissions of VOC no greater than 10 milligrams/liter of gasoline loaded) and a destruction efficiency of no less than 98 percent for materials other than gasoline.

10. 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 that results in emissions that exceed a reportable quantity shall be reported pursuant to Title 30 Texas Administrative Code §§ 101.201 or 101.211 (30 TAC §§ 101.201 or 101.211) and shall be cleaned up immediately to minimize air emissions.

11. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections. **(12/09)**

12. Benzene concentrate loading emissions from the Railcar Rack (EPN L-15) shall be vented to Vapor Combustor (EPN FL-7). **(12/09)**

13. The permit holder shall maintain and update monthly an emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12 month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Emissions shall be calculated using AP-42, Fifth Edition (June 2008), Equation 1 (section 5.2.2.1.1, Loading Losses) and current TCEQ guidelines for calculating loading emissions. **(10/12)**

    These records shall be maintained at the plant site for at least five years, and be made available to representatives of the TCEQ upon request. For compliance demonstration purposes, the holder of this permit may use the meteorological data contained in AP-42 dated March 1998, or later version. **(10/12)**

Operating Parameters and Conditions

14. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOCs at a concentration of greater than 1 weight 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 VOCs at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions.

15. Flares shall be designed and operated in accordance with the following requirements: **(03/12)**

    A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office in addition to New Source Performance Standards (NSPS) or federal requirements, to demonstrate compliance with these requirements.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam assist to the flare (for steam assisted flares).

D. The permit holder shall maintain flow monitors and composition analyzers according to Special Condition No. 59.E(3).

E. The holder of this permit shall install the continuous flow monitors required by Section D consistent with the following schedule:

Main Refinery Flares - The monitoring system will be installed in the new No. 2 Main Refinery Flare (EPN FL-8) when it is constructed and before the startup of the flare, but not later than October 1, 2010. The monitoring system will be installed in the existing No. 1 Main Refinery Flare (EPN FL 1) when it is expanded but not later than October 1, 2007.

Other Refinery Flares - The monitoring systems will be installed in the other refinery flares as soon as practicable after the existing Main Refinery Flare (EPN FL-1) is expanded, but no later than October 1, 2009. **(12/10)**

F. The permit holder shall maintain records according to Special Condition No. 59.E(4).

Vapor Combustor

16. EPN FL-7 shall achieve 98 percent control of the VOC emissions directed to it. This shall be ensured by maintaining the fifteen-minute average temperature in or immediately downstream of the combustion chamber above 1297°F based on the minimum one-hour average temperature maintained during the last satisfactory stack test dated May 11, 2011. **(10/12)**

The temperature measurement device shall reduce the temperature readings to an averaging period of 15 minutes or less and record it at that frequency. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

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

The vapor combustor shall be operated with no visible emissions and have a constant pilot flame during all times waste gas could be directed to it. 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.

A. EPN FL-7 shall not have a bypass. However, 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 that 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. A bypass for this paragraph does not include analyzer vents that are permitted, highpoint bleeder vents or low point drains for maintenance, or rupture discs used in series with pressure relief valves that have pressure monitoring between which is checked and recorded at least weekly.

B. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

Boilers and Heaters

17. There shall be no visible emissions from the heaters, boilers, or sulfur recovery unit (SRU) Incinerators except for those periods described in 30 TAC § 111.111(a).

18. Unless otherwise specified, all boilers and heaters are subject to the firing rates, CO concentrations, and NO_x emission rates contained in Attachment E of this permit. **(02/13)**

19. A selective catalytic reduction (SCR) system using aqueous ammonia shall be installed and operated to meet the nitrogen oxides (NO_x) and ammonia (NH_3) emission limits of this special condition and the maximum allowable emission rates table (MAERT) for Boiler B-22 (EPN B-22). Emissions from Boiler B-22 (EPN B-22) shall not exceed the following limits except during periods of planned maintenance, startup, and shutdown (MSS), as specified in the MSS special conditions: **(12/13)**

A. 0.010 pound per Million British thermal units (lb/MMBtu HHV) NO_x based upon a 365-day rolling average, and 0.015 lb/MMBtu HHV NO_x based upon a one-hour average.

B. 50 parts per million by volume, dry basis (ppmvd) carbon monoxide (CO), at 3 percent O_2 based upon a 365-day rolling average, and 100 ppmvd, 3 percent O_2 based upon a one-hour average.

C. 10 ppmvd NH_3, at 3 percent O_2 based on one-hour average.

Piping, Valves, Connectors, Pumps, and Agitators - 28VHP

20. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(02/13)**

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 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, and pump 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, 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, 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. As an alternative to comparing the daily emission rate of the components on the delay of repair (DOR) list to the total emissions from a unit shutdown per the requirements of Special Condition No. 20, Subparagraph I, the cumulative hourly emission rate of all components on the DOR list may be compared to ten percent of the fugitive short term allowable on the Maximum Allowable Emission Rate Table in order to determine if the TCEQ Regional Director and any local program is to be notified. In addition, the hourly emission rates of each specific compound on the DOR list must be less than ten percent of the speciated hourly fugitive emission rate of the same compound.

Compressors in Contact with VOC - Intensive Directed Maintenance - 28MID

21. Except as may be provided for in the special conditions of this permit, the following requirements apply to compressor seals: **(02/13)**

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

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

(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. An approved gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In

addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs are being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

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

C. All new and replacement compressors shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system.

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

D. Damaged compressor seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired.

A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), 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.

E. 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.

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

Piping, Valves, Pumps, and Compressors in H_2S, SO_2, or NH_3 Service

22. Piping, Valves, Pumps, and Compressors in H_2S, SO_2, or ammonia (NH_3) service are subject to the following requirements:

A. Audio, olfactory, and visual checks for H_2S, SO_2, and NH_3 leaks within the No. 1 and No. 2 Sulfur Plants, Amine Regenerators, Sour Water Strippers, and process streams that have greater than 2 percent H_2S by weight shall be made once per shift.

B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take one of the following actions:

(1) Isolate the leak,

(2) Commence repair or replacement of the leaking component, or

(3) Use a leak collection or containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

C. 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. **(12/10)**

Sulfur Recovery Units (SRUs)

23. The No. 1 SRU Incinerator Vent (EPN V-5) and the No. 2 SRU Incinerator Vent (EPN V 16) firebox exit temperatures shall be maintained at not less than 1297°F and 1260°F, respectively, and exhaust oxygen concentration shall be maintained at not less than 1 percent while waste gas is being fed into either SRU Incinerator.

After the initial stack test has been completed, the tail gas incinerator (TGI) shall be operated with not less than the oxygen concentration maintained during the last satisfactory stack test performed in accordance with Special Condition No. 35. The firebox chamber 15 minute block average temperature shall be maintained above the minimum 15-minute block average temperature maintained during the last satisfactory stack test performed in accordance with Special Condition No. 35.

The tail gas incinerator (TGI) firebox exit temperature and oxygen concentration shall be continuously monitored and recorded. The temperature measurement device shall reduce the temperature readings to an averaging period of 15-minute blocks or less and record it at that frequency. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

Quality-assured (or valid) data must be generated when the tail gas incinerator 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 tail gas incinerator operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(12/13)**

24. The No. 1 SRU Incinerator (EPN V-5) and the No. 2 SRU Incinerator Vent (EPN V 16) shall each either operate with no less than 99.9 percent efficiency in disposing of the acid gas waste streams or operate with an exhaust hydrogen sulfide concentration of less than 5 ppmv, corrected to 3 percent oxygen. The demonstration of the 99.9 percent control efficiency of the No.1 SRU Incinerator and the No. 2 SRU Incinerator will be determined via the temperature monitoring required in Special Condition No. 23. **(12/13)**

25. The minimum sulfur recovery efficiency for the No. 1 and No. 2 Sulfur Plants shall be 99.8 percent. The sulfur recovery efficiency shall be determined by calculation as follows:

$$\text{Efficiency} = \frac{(\text{S recovered})*(100)}{(\text{S acid gas})}$$

where:

Efficiency	=	sulfur recovery efficiency, percent
S recovered	=	S produced, Long tons per day (LTPD)
S acid gas	=	(S recovered plus S stack), LTPD
S stack	=	sulfur in the incinerator stack, LTPD

The average sulfur emission reduction efficiency (sulfur recovery efficiency) shall be demonstrated for each calendar day by a mass balance calculation using data obtained from the incinerator stack SO_2 monitor, sulfur production records, and other process data. The daily sulfur recovery efficiency shall be calculated on a monthly basis. **(12/13)**

26. Prior to the modification of the SRU No. 1 to 50 LTPD capacity, the total sulfur recovered from SRU Trains (SRU No. 1, SRU No. 2, and the refinery Sulfuric Acid Plant) shall not exceed 73.8 LTPD. After the modification of the SRU No. 1 to 50 LTPD capacity, the total sulfur recovered from SRU Trains (SRU No. 1, SRU No. 2, and the refinery Sulfuric Acid Plant) shall not exceed 100 LTPD. **(12/13)**

27. All acid gas streams from the amine regeneration units, desalter stripper overhead, and sour water stripper overheads, containing H_2S shall be routed to the SRUs, acid plants, or recycled under normal operating conditions. It is not permissible under any conditions to vent acid gases directly to the atmosphere.

28. Sour gas emissions from the sulfur pits, sulfur storage, and sulfur loading operations shall be collected by a vapor collection system and routed either back to the SRU thermal reactor or to the SRU tail gas incinerator (TGI).

29. Compliance with Particulate Matter emissions from Tail Gas Incinerators V-5 and V-16 shall be determined using the maximum flowrate determined during the most recent successful stack test and the emission factor submitted in the amendment application PI-1 received March 28, 2011. **(12/13)**

Cooling Towers

30. This condition shall apply to the No. 1 Refinery Cooling Tower (EPN F-20), the Gasoline Plant Cooling Tower (EPN F-21) and the No. 2 Refinery Cooling Tower (EPN F-47). The cooling water shall be monitored monthly for VOC leakage from heat exchangers in accordance with the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or another air stripping method approved by the TCEQ Executive Director.

    Air stripped cooling water VOC concentrations above 0.08 ppmw indicate faulty equipment. Equipment shall be maintained so as to minimize VOC emissions into the cooling water. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs.

    Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded. **(12/13)**

31. The No. 1 Refinery Cooling Tower (EPN F-20), the Gasoline Plant Cooling Tower (EPN F-21) and the No. 2 Refinery Cooling Tower (EPN F-47) shall be equipped with drift eliminators that achieve a maximum drift of 0.001 percent. Cooling water shall be sampled once a week for total dissolved solids (TDS). Dissolved solids in the cooling water drift are considered to be emitted as PM. The data shall result from collection of water samples from the cooling tower feed water and represent the water being cooled in the tower. Water samples should be capped upon collection, and transferred to a laboratory area for analysis. The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Use of an alternative method shall be approved by the TCEQ Regional Director prior to its implementation. **(12/13)**

    The permit holder may reduce the frequency of sampling for TDS by establishing a correlation between TDS and conductivity for the cooling tower as follows.

A. For a minimum period of four weeks the cooling water shall be sampled once a week for analysis of total dissolved solids (TDS) and conductivity. The analysis method for conductivity shall be ASTM D1125-95A or SM2510 B. The data from the initial side-by-side measurements of TDS and conductivity shall be graphed and a slope calculated. A safety factor of two standard deviations will be applied to the slope for data quality expectation. A report including the weekly results, a data assessment and correlation of TDS to conductivity will be maintained on-site.

B. Following the completion of the report, the cooling water shall be sampled daily for conductivity and the result converted to TDS from the established correlation.

C. The correlation will be rechecked annually with a single cooling water sample analysis for TDS and conductivity. The measured TDS value shall be compared to that estimated using the measured conductivity and the established correlation. If the calculated TDS value falls either above or below two standard deviations of the calculated slope, a new correlation effort shall be conducted in accordance with paragraph A of this condition.

Cooling tower PM emissions shall be determined using the cooling tower water circulation rates, cooling tower design drift, and the measured or estimated TDS.

Fluidized Catalytic Cracking Unit (FCCU)

32. The following applies to the FCCU Regeneration Vent/Vent Gas Stack (EPN V-20): **(12/13)**

A. The maximum allowable concentration of the following pollutants in the fluid catalytic cracking unit (FCCU) flue gas vent stack averaged over a one-hour period are given below:

carbon monoxide(CO)	500 ppmv (dry basis)
sulfur dioxide (SO_2)	50 ppmvd @ 0% O_2 7-day rolling average
SO_2	25 ppmvd @ 0% O_2 365-day rolling average
nitrogen oxides (NO_x)	100 ppmv at 0% O_2; 7-day rolling average
NO_x	50 ppmv at 0% O_2; 365-day rolling average
volatile organic compounds (VOC)	10 ppmv
ammonia (NH_3)	100 ppmv

All concentrations shall be measured on a ppmvd basis; SO_2 and NO_x concentrations are measured on an air-free basis.

B. Emissions of PM from the FCCU stack (EPN V-20), established in stack tests performed May 21, 2008, shall not exceed 2.0 pound per 1,000 pounds of coke burn-off, on an hourly average.

33. The opacity of emissions from the FCCU stack shall not exceed 15 percent averaged over a six-minute period, as determined by an opacity monitoring device or a trained observer, except during soot blowing, aggregating up to six minutes in any 60 consecutive minutes and no more than six hours in any ten-day period as provided for in 30 TAC § 111.111(a)(1)(E).

Initial Determination of Compliance

34. Sampling ports and platform(s) shall conform to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.

35. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the following sources to demonstrate compliance with the MAERT: **(12/13)**

Heaters and boilers with firing rates greater than 40 MMBtu/hr and less than 100 MMBtu/hr (EPNs H-11, H-8, H-9, H-42, H-43, H-2, H-26, H-40, H-48, H-45, H-36, , H-80, B-4, B-6 and B-8), FCCU Regenerator (EPN V-20), SCOT TGIs (EPNs V-5 and V-16), Sulfuric Acid Plant Vent (EPN V-29), No. 1 and No. 2 Reformer Regeneration Vents (EPNs V-18 and V-21), and Truck and Railcar Vapor Combustor (EPN FL-7).

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.

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 to be tested for include (but are not limited to) the following for the various units:

(1) Heaters and boilers - NO_x and carbon monoxide (CO).

(2) FCCU regenerator - CO, PM (both front and back-half of the sampling train), and sulfuric acid mist.

(3) SRU/SCOT TGIs - NO_x, CO, PM (both front and back-half of the sampling train), and total reduced sulfur.

(4) Reformer regeneration vents - hydrogen chloride and chlorine.

(5) Vapor combustors - VOC, NO_x, and CO.

(6) Sulfuric Acid Plant - sulfuric acid mist.

C. Sampling of air contaminants not monitored by continuous emission monitoring system (CEMS) under the Continuing Determination of Compliance section of these conditions shall occur as follows:

(1) Each emission point subject to testing pursuant to this special condition shall be sampled at least every five years.

(2) In addition, each emission point shall be sampled within 60 days of achieving maximum operation, not to exceed 180 days after initial operation, or when a physical change at the facility or its control system results in an increase of allowable emissions. If the EPN 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 if the firing rate exceeds the tested firing rate by more than 10 percent (additional testing will not be required if the EPN is equipped with a CEMS).

(3) 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 the EPA approval, and requests shall be submitted to the appropriate regional office.

D. Each emission point subject to stack emission testing shall be tested when the facility (or facilities) directly associated with the emission point is operating at maximum emissions potential. This maximum emission potential will occur at the maximum production, throughput, or firing rate associated with that facility. 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.

E. Copies of the final sampling report shall be forwarded to the appropriate TCEQ Regional Office 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.

Continuous Determination of Compliance

36. The holder of this permit shall install and maintain a continuous H_2S monitoring system in a representative location in the fuel gas system common to the affected combustion sources within this permit in accordance with the fuel sulfur monitoring requirements of 40 CFR § 60.105.

37. The holder of this permit shall install, calibrate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity from the FCCU Regenerator (EPN V-20) and shall install, calibrate, and maintain CEMS to measure and record:

- CO, NO_x, and O_2 from the heaters and boilers with firing rates greater than 100 MMBtu/hr;
- SO_2 and O_2 from the SRU/SCOT TGIs (EPNs V-5 and V 16);
- SO_2 from the Acid Plant Stack (EPN V-29); and
- NO_x, O_2, and SO_2 from the FCCU Regenerator (EPN V 20).

For the acid plant stack, the CEMS shall be installed no later than December 31, 2005. Any other monitoring systems not in operation when this permit is issued shall be operational as follows:

A. Each COMS/CEMS shall be operational within 60 days of achieving maximum operation, not to exceed 180 days after initial operation, after physical changes have been made pursuant to the Emission Reductions section of these conditions.

B. All COMS/CEMS shall be operational not later than October 1, 2008, (four years after permit issuance.)

C. The CEMS monitoring systems shall meet the following requirements: **(02/13)**

(1) The 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.

(2) Section (a) below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section (b) applies to all other sources:

(a) 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.

(b) 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, unless the monitor is required by a subpart of NSPS or NESHAPS, in which case zero and span shall be done daily without exception.

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.

(3) The CEMS monitoring data shall be reduced to hourly average concentrations at least once weekly, using a minimum of four equally-spaced data points from each one hour period. The individual average concentrations from each CEMS shall be reduced to units of the permit allowable emission rate in pounds per hour (lb/hr) and cumulative TPY on a 12-month rolling average within 30 days of the end of each calendar quarter.

(4) 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.

(5) 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.

(6) Quality-assured (or valid) data must be generated when the facility 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 facility 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

D. The permit holder shall install, calibrate, operate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity from the electrostatic precipitator (ESP) at the FCCU stack (EPN: V-20). **(09/11)**

(1) The COMS monitoring data shall be reduced to six minute average opacity at least once weekly, using a minimum of six equally spaced data points for each minute.

(2) The COMS shall meet Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B Performance Specification No 1. The initial performance evaluation of the COMS required by the performance specification shall be conducted and passed within 60 days of start-up.

(3) The COMS shall meet the requirements of 40 CFR 60.13. The appropriate TCEQ Regional Manager will be the administrator for alternate monitoring requests, except where the monitoring is also required by an applicable New Source Performance Standard (NSPS, 40 CFR Part 60) or National Emission Standard for Hazardous Air Pollutants (NESHAP, 40 CFR Parts 61 or 63) where EPA Region 6 remains the administrator for alternate monitoring requests. Alternate monitoring requests should be submitted to the appropriate TCEQ Regional Director and EPA Region 6, when they are the administrator, with copies to any local air pollution.

(4) Monitoring data shall be recorded and maintained as specified in 40 CFR 60.7 (c), (d), (e) and (f).

(5) The appropriate TCEQ Regional Office and any local air pollution programs shall be notified at least 30 days prior to any required initial performance evaluation.

(6) Quality-assured (or valid) data must be generated when the ESP 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 ESP is operated over the previous rolling 12-month period.

38. The NH_3 concentration in the Boiler B-22 Stack (EPN B-22) shall be tested or calculated according to one of the methods listed below and shall be tested or calculated according to frequency listed below. Testing for NH_3 slip is only required when the SCR unit is in operation.

A. The holder of this permit may install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NH_3. The NH_3 concentrations shall be corrected in accordance with Special Condition No. 19.C.

B. As an approved alternative, the NH_3 slip may be measured using a sorbent or stain tube device specific for NH_3 measurement in the 5 to 10 ppm range. The frequency of sorbent or stain tube testing shall be daily for the first 60 days of operation, after which, the frequency may be reduced to weekly testing if operating procedures have been developed to prevent excess amounts of NH_3 from being introduced in the SCR unit and when operation of the SCR unit has been proven successful with regard to controlling NH_3 slip. Daily sorbent or stain tube testing shall resume when the catalyst is within 30 days of its useful life expectancy. These results shall be recorded and used to determine compliance Special Condition No. 19.C.

C. As an approved alternative to sorbent or stain tube testing or an NH_3 CEMS, the permit holder may install and operate a second NO_x CEMS probe located between the firebox and the SCR, upstream of the stack NO_x CEMS, which may be used in association with the SCR efficiency and NH_3 injection rate to estimate NH_3 slip. This condition shall not be construed to set a minimum NO_x reduction efficiency on the SCR unit. These results shall be recorded and used to determine compliance with Special Condition No. 19.C.

D. If the sorbent or stain tube testing indicates an ammonia slip concentration which exceeds 5 parts per million (ppm) at any time, the permit holder shall begin NH_3 testing by either the Phenol-Nitroprusside Method, the Indophenol Method, or EPA Conditional Test Method (CTM) 27 on a quarterly basis in addition to the weekly sorbent or stain tube testing. The quarterly testing shall continue until such time as the SCR unit catalyst is replaced; or if the quarterly testing indicates NH_3 slip is 4 ppm or less, the Phenol-Nitroprusside/Indophenol/CTM 27 tests may be suspended until sorbent or stain tube testing again indicate 5 ppm NH_3 slip or greater. These results shall be recorded and used to determine compliance with Special Condition No. 19.C.

E. As an approved alternative to sorbent or stain tube testing, NH_3 CEMS, or a second NO_x CEMS, the permit holder may install and operate a dual stream system of NO_x CEMS at the exit of the SCR. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS, and the other exhaust stream would be routed through a NH_3 converter to convert NH_3 to NO_x and then to a second NO_x CEMS. The NH_3 slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted). These results shall be recorded and used to determine compliance with Special Condition No. 19.C.

Any other method used for measuring NH_3 slip shall require prior approval from the TCEQ Regional Director. **(12/13)**

Emission Reductions

39. Low-NO_x burners shall be installed on the No. 15 Boiler (EPN B-8), the No. 2 Crude Unit Heater (Petrochem South) (EPN H-9) and the No. 1 Vacuum Unit Charge Heater (EPN H-

2) prior to the start of operation of the proposed changes represented in the 2013 Crude Expansion Project application. **(12/13)**

40. A bagfilter (EPN V-30) shall be installed on the FCCU spent catalyst fines handling system that meets no greater than 0.01 gr/dscf outlet grain loading. **(12/13)**

41. A catalytic converter shall be installed on the Unifiner Compressor's gas engine exhaust line (EPN E-7) that controls the outlet concentration of CO to no more than 225 ppmv. **(12/13)**

42. Particulate matter shall not exceed 0.01 grain per dscf of air from the Water Treatment Lime Silo (EPN V-14) or Soda Ash Silo (EPN V-13) vent. There shall be no visible emissions exceeding 30 seconds in any six-minute period that loading to the Water Treatment Lime Silo or Soda Ash Silo is occurring as determined using U.S. Environmental Protection Agency (EPA) Test Method 22. This determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point(s). Up to three emissions points may be read concurrently, provided that all three emissions points are within a 70 degree viewing sector or angle in front of the observer such that the proper sun position (at the observer's back) can be maintained for all three emission points. **(01/13)**

    Loading to the Water Treatment Lime Silo and Soda Ash Silo shall not occur unless control devices and associated equipment are maintained in good working order and operating. All vents will be inspected for visible emissions during loading of the silos. Records shall be maintained of all inspections and maintenance performed.

    The differential pressure across each baghouse shall be continuously monitored while loading to the silos is occurring. The pressure drop shall be at least 0.25 inches water and shall not exceed 6 inches of water. An alarm detector system shall be used to notify operator personnel if the pressure drop falls below the minimum or exceeds the maximum specified. Loading shall be discontinued if the alarm is activated and shall not resume until the baghouse is restored to good working order.

    Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 0.5 inches water gauge pressure or 2.0 percent of span.

Emission Cap Compliance Recordkeeping

43. Recordkeeping programs for those facilities authorized and covered by this permit shall be established and maintained such that the ability to demonstrate compliance with all authorized emission caps (short-term lb/hr and annual TPY) is ensured. Records of all compliance testing, CEM results, and process parameters (including short-term production rates, firing rates, etc.) necessary to demonstrate compliance with the ER caps shall be maintained on-site for a period of two years. This recordkeeping shall commence within six months of the issuance of this permit.

44. Emission calculations for verifying compliance with the emission caps shall be performed at least once every calendar quarter to demonstrate compliance with the annual rolling average ER. Demonstration of compliance shall be based on the methodologies presented in the flexible permit application or as presented below. The holder of this permit shall maintain all records necessary to demonstrate compliance with the short-term (lb/hr) and annual (TPY) emissions caps consistent with this methodology and provide such demonstration of compliance to the TCEQ Regional Office upon request.

    These and all records required by any conditions of this permit shall be made available to representatives of the TCEQ upon request.

    The emissions shall be determined by using the following techniques. When a technique is not specified below for a specific facility type, the holder of this permit shall use the technique that was used in the permit application.

    Tanks - As specified in the special conditions of this permit, short-term emission rates shall be based on the maximum expected filling rate (fixed-roof) and the higher of the filling rate or withdrawal rate (IFR and EFR).

    Loading - AP-42 Chapter 5.2-4 (Fifth Edition) LL Equation - The collection efficiency shall be as documented in the permit application. Emissions from control devices shall be determined using the emission factor (in mg/l) determined through testing pursuant to the special conditions of this permit. The manufacturer's guaranteed emission factor may be used if the most recent stack testing has verified that factor.

    Fugitives - Component counts, emission factors, and reduction credits specified in the permit application for the 28M, 28VHP, 28MID, and AVO maintenance program.

    Boilers/Heaters - CEM information if such a device is installed. The most recent stack test results if a CEM is not installed. If no stack sampling is required, use the proper emission factor for the specific unit from the permit application and the measured daily Btu value and daily average flow rate of the fuel gas.

    Cooling Towers - Measured strippable VOC concentration (as specified in these conditions) and the cooling tower circulation rate. For EPNs F-20 and F-47, the deadline for monitoring and recording cooling tower circulation rate is December 28, 2012. **(12/09)**

    SRU/FCCU - CEM information. Use the most recent stack test for those compounds which are not subject to CEM requirements. If no stack sampling is required, use the proper emission factor for the specific unit from the permit application. The permittee shall record once-per-day the average coke burn-off rate and hours of operation of the FCCU catalyst regenerator.

    Compliance with the annual emission caps and individual emission limitations of this permit shall be based on a 12-month rolling average of emissions (emissions shall be calculated for individual calendar months and summed for consecutive 12-month periods for comparison to the caps).

Best Available Retrofit Technology (BART)

45. The NO_x and SO_2 emissions for any consecutive 12-month period shall not exceed a total of 1,000 tons (total NO_x plus SO_2) for the following combustion devices:

FIN	EPN	Source Name
B-8	B-8	No. 15 Boiler
B-9	B-9	No. 16 Boiler
B-10	B-10	No. 18 Boiler
B-11	B-11	No. 19 Boiler
H-1	H-1	No. 1 Crude Charge Heater
H-2	H-2	No. 1 Vacuum Heater
H-18	H-18	No. 1 Reformer Charge Heater
F-15	V-5	SRU No. 1 Incinerator

This limitation is to establish federally enforceable emission rate limits pursuant to § 116.1510(c) (2), and is in addition to all other terms and conditions of this permit which apply to these facilities. Records sufficient to demonstrate compliance with this condition shall be kept and maintained on-site for a period of five years and shall be made available to the TCEQ Executive Director or his designated representative upon request. **(7/08)**

Combustion Source Limitations

46.

A. All combustion sources covered under this permit shall be fired with either sweet natural gas as defined in 30 TAC Chapter 101 or with refinery fuel gas containing no more than 162 ppmv and 60 ppmv hydrogen sulfide (H_2S) on three-hour and annual average basis, respectively. **(12/13)**

B. The permit holder shall install and operate a fuel flow meter with a computer that collects, sums, and stores electronic data to measure the gas fuel usage for each combustion source with a maximum design capacity equal to or greater than 40 MMBtu/hr. MMBtu/hr and fuel usage for each shall be recorded at least monthly. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or annually, whichever is more frequent, and shall be accurate to within 5 percent. **(12/13)**

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

For orifice plates used to measure flow, the calibration requirement applies to the instrument used to monitor the pressure drop across the orifice plate.

47. EPA Consent Decree SA-05-CA-0569 requires that the Company reduce NO_x emissions from refinery heaters and boilers greater than 40 MMBTU/hr (HHV) by committing to the following interim emission limits. The emission limits listed below are required to meet an interim system-wide (all Valero refineries subject to Consent Decree SA-05-CA-0569) weighted average concentration emission limit for NO_x of 0.060 lb/MMBTU. **(7/10)**

Source Name	Source Description	Interim Permit Limit, lb/MMBTU	Emission Limit Averaging Period
H-1	No. 1 Crude Charge Heater	0.040	365-day rolling average
H-41	No. 2 Crude Charge-Born	0.053	365-day rolling average
H-18	No. 1 CCR Charge Heater 201	0.044	365-day rolling average
	No. 1 CCR Charge Heater 202		
	No. 1 CCR Charge Heater 203		
B-12	600# Boiler	0.200	365-day rolling average
B-10	No. 18 Boiler	0.169	365-day rolling average
B-11	No. 19 Boiler	0.158	365-day rolling average
H-38	No. 2 Reformer Chg Heater 1	0.039	365-day rolling average
H-38	No. 2 Reformer Chg Heater 2		
H-38	No. 2 Reformer Chg Heater 3		
H-46	No. 1 CCR Ref No. 1 Interheater	0.046	365-day rolling average
B-8	No. 15 Boiler	0.120	365-day rolling average

Source Name	Source Description	Interim Permit Limit, lb/MMBTU	Emission Limit Averaging Period
B-9	No. 16 Boiler	0.064	365-day rolling average
B-4	No. 11 Boiler	0.190	3-hour average
B-5	No. 12 Boiler	0.000 (shut down)	3-hour average
B-6	No. 13 Boiler	0.210	3-hour average
B-7	No. 14 Boiler	0.000 (shut down)	3-hour average
B-3	No. 10 Boiler	0.317	3-hour average
H-80	FCC Gas HDS Charge Heater	0.031	3-hour average
H-26	No. 2 Vacuum Heater	0.044	365-day rolling average
H-8	HCU Frac Charge Heater (Petrochem North)	0.053	3-hour average
H-11	No. 2 Crude Charge-Anderson	0.042	3-hour average
H-45	No. 1 Hydrotreater Charge Heater	0.038	3-hour average
H-42	HCU Recycle Heater	0.041	3-hour average
H-43	HCU DeC_4 Reboiler Heater	0.038	3-hour average
H-2	No. 1 Vacuum Heater	0.047	3-hour average
H-36	No. 2 Naphtha Hydrotreater Charge Heater	0.031	3-hour average
H-40	No. 1 PDA Asphalt Heater (Asphalt-South)	0.128	3-hour average
H-48	Diesel Hydrotreater Charge Heater	0.036	3-hour average
H-3	No. 1 Naphtha Reboiler Heater	0.000 (shut down)	3-hour average
H-9	No. 2 Crude Heater (Petrochem South)	0.148	3-hour average

Source Name	Source Description	Interim Permit Limit, lb/MMBTU	Emission Limit Averaging Period
H-13	GO Fractionator Heater	0.389	3-hour average

EPA Consent Decree SA-05-CA-0569 requires that the Company reduce NO_x emissions from refinery heaters and boilers greater than 40 MMBTU/hr (HHV) by committing to the following final emission limits. The emission limits below are required to meet a final system-wide (all Valero refineries subject to Consent Decree SA-05-CA-0569) weighted average concentration emission limit for NO_x of 0.044 lb/MMBTU. **(03/12)**

Source Name	Source Description	Final Permit Limit, lb/MMBTU	Emission Limit Averaging Period
H-1	No. 1 Crude Charge Heater	0.040	365-day rolling average
H-41	No. 2 Crude Charge-Born	0.044	365-day rolling average
H-18	No. 1 CCR Charge Heater 201	0.044	365-day rolling average
	No. 1 CCR Charge Heater 202		
	No. 1 CCR Charge Heater 203		
B-12	600# Boiler	0.182	365-day rolling average
B-10	No. 18 Boiler	0.039	365-day rolling average
B-11	No. 19 Boiler	0.039	365-day rolling average
H-38	No. 2 Reformer Chg Heater 1	0.039	365-day rolling average
	No. 2 Reformer Chg Heater 2		
	No. 2 Reformer Chg Heater 3		
H-46	No. 1 CCR Ref No. 1 Interheater	0.046	365-day rolling average
B-8	No. 15 Boiler	0.108	365-day rolling average
B-9	No. 16 Boiler	0.060	365-day rolling average

Source Name	Source Description	Final Permit Limit, lb/MMBTU	Emission Limit Averaging Period
B-4	No. 11 Boiler	0.220	3-hour average
B-5	No. 12 Boiler	0.000 (shut down)	3-hour average
B-6	No. 13 Boiler	0.190	3-hour average
B-7	No. 14 Boiler	0.000 (shut down)	3-hour average
B-3	No. 10 Boiler	0.000 (shut down)	3-hour average
H-80	FCC Gas HDS Charge Heater	0.030	3-hour average
H-26	No. 2 Vacuum Heater	0.044	365-day rolling average
H-8	HCU Frac Charge Heater (Petrochem North)	0.053	3-hour average
H-11	No. 2 Crude Charge-Anderson	0.042	3-hour average
H-45	No. 1 Hydrotreater Charge Heater	0.030	3-hour average
H-42	HCU Recycle Heater	0.041	3-hour average
H-43	HCU DeC_4 Reboiler Heater	0.038	3-hour average
H-2	No. 1 Vacuum Heater	0.046	3-hour average
H-36	No. 2 Naphtha Hydrotreater Charge Heater	0.031	3-hour average
H-40	No. 1 PDA Asphalt Heater (Asphalt-South)	0.128	3-hour average
H-48	Diesel Hydrotreater Charge Heater	0.036	3-hour average
H-3	No. 1 Naphtha Reboiler Heater	0.000 (shut down)	3-hour average
H-9	No. 2 Crude Heater (Petrochem South)	0.148	3-hour average
H-13	GO Fractionator Heater	0.180	3-hour average

Maintenance/Startup and Shutdown Emissions

48. This permit authorizes emissions 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 the maximum allowable emission rates (MAERT) and other requirements specified in the special conditions.

    Planned startup and shutdown emissions due to the activities identified in Special Condition No. 49 are authorized from facilities and emission points identified in Attachment D in other construction permits at the site provided the facility and emissions are compliant with the respective MAERT and special conditions, or Special Condition No. 58 of this permit.

49. This permit authorizes the emissions for the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit. This permit also authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: frac tanks, containers, vacuum trucks, facilities used for painting or abrasive blasting, portable control devices identified in Special Condition No. 59, and controlled recovery systems. 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 site facilities listed in Attachment D, and (c) does not operate as a replacement for an existing authorized facility.

    Attachment A identifies the inherently low emitting MSS activities that may be performed at the refinery. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of 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 not identified in Attachments A or B 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 or the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. The date on which the MSS activity occurred;

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.

50. Process units and facilities, with the exception of those identified in Special Condition Nos. 53 (related to Floating Roof Tanks), 54 (related to Fixed-Roof Tanks), 56 (related to frac or temporary tanks), and activities listed in Attachment A, shall operate in accordance with the following requirements during MSS.

A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC true vapor pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition without depressuring or degassing to a control device. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC true vapor pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.

C. All liquids from process equipment shall be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids with a VOC true vapor pressure greater than or equal to 0.044 psia at 68°F shall be drained into a closed vessel or oily water sewer system unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid shall be covered or transferred to a covered vessel within one hour of being drained. After draining is complete, empty open pans may remain in use for housekeeping reasons to collect incidental drips.

D. If the VOC true vapor pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to 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. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration

following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.

The following requirements do not apply to fugitive components, pumps, pipeline pigging, and compressors.

(1) For MSS activities identified in Attachment 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) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded (PFD's, P&ID's or Turnaround and Inspection (T&I) plans may be used to demonstrate compliance with the requirement). Documented refinery procedures used to deinventory 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. If the process equipment is purged with a gas, purge gas must have passed through the control device or controlled recovery system for a sufficient period of time in accordance with the applicable site operating procedures 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 No. 51. 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 or equal to 10,000 ppmv or 10 percent of the LEL.

(3) Alternatively, the process equipment may be filled with a liquid with a VOC vapor pressure less than 0.147 psi while venting to control. If it can be verified that the liquid filled the entire process equipment or vessel, no sampling is necessary. If not, the VOC concentration shall be verified to be less than 10,000 ppmv or 10 percent of the LEL using an instrument meeting the requirements of Special Condition No. 51 while purging to control immediately after draining the liquid from the system. The locations and/or identifiers where the liquid enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded (PFDs, P&IDs, or T&I Plans) may be used to demonstrate compliance with the requirement.

E. Equipment vapors with VOC true vapor 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 any individual air contaminant to be vented to atmosphere during shutdown or startup, as applicable.

All instances of venting directly to atmosphere per Special Condition No.50.E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order, shift logs, or equivalent for those planned MSS activities identified in Attachment B.

51. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

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

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas. The calibration gas used and its concentration, and the vapor to be sampled and its approximate response factor (RF), shall be recorded. If the RF of the VOC (or mixture of VOCs) to be monitored is greater than 2.0, the VOC concentration shall be determined as follows:

VOC Concentration = Concentration as read from the instrument*RF

(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 five minutes and the greatest VOC concentration recorded. This VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

(3) If a TVA-1000 series FID analyzer calibrated with methane is used to determine the VOC concentration, a measured concentration of 34,000 ppmv may be considered equivalent to 10,000 ppmv as VOC.

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 two samples taken at least five 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 pentane/air mixture at 25 percent of the lower explosive limit for pentane.

(2) A daily functionality test shall be performed on each detector using the same certified gas mixture used for calibration. The LEL reading shall be within +10 percent of the calibration gas certified value.

(3) A certified methane gas standard equivalent to 25 percent of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95 percent of that for pentane.

D. For measuring benzene breakthrough on Carbon Adsorption Systems in Special Condition No. 59, a portable gas chromatograph using a flame ionization detector or photo ionization detector may be used. Alternatively a photo-ionization detector equipped with a benzene separation tube consistent with manufacturer requirements may be used. The monitor shall have the sensitivity and specificity to quantify low level benzene concentrations. The monitor device shall be calibrated within 24 hours of use with a certified calibration gas containing ~5 ppm benzene. Records of the calibration date/time and calibration result shall be maintained.

52. This condition applies only to piping and components subject to leak detection and repair monitoring requirements identified in other NSR permits. 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: **(03/12)**

A. A cap, blind flange, plug, or second valve must be installed on the line or valve; or

B. The open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results

recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

53. This permit authorizes emissions from the storage tanks identified in the attached facility list during planned floating roof landings. Tank floating roofs may only be landed for changes of tank service or tank inspection/maintenance as identified in the permit application, except when the VOC vapors below the floating roof are routed to a control device or a controlled recovery system from the time the floating roof is landed until the floating roof is within 10 percent by volume of being refloated. Tank change of service includes landings to accommodate seasonal RVP spec changes and landings to correct off spec material that cannot be blended into finished product tanks. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT.

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 during this process.

This requirement does not apply if the level is lowered to allow for maintenance that is expected to be completed in less than 24 hours. In that case, the tank must be filled and the roof floated within 24 hours of landing the roof and the evolution documented in accordance with Special Condition No. 53.E.

B. If the VOC true vapor pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, 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. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC true vapor pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. 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 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 volume measurement 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 No. 51.

(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 true vapor 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 by (1) or (2) below until one of the criteria in part D of this condition is satisfied.

(1) Minimize air circulation in the tank vapor space.

(a) 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.

(b) Access points shall be closed when not in use

(2) Minimize time and VOC partial pressure.

(a) The VOC partial pressure of the liquid remaining in the tank shall not exceed 0.044 psi as documented by the method specified in part D(1) of this condition.

(b) Blowers may be used to move air through the tank without emission control at a rate not to exceed 11,000 cfm for no more than 75 hours. All standing liquid shall be removed from the tank during this period.

(c) Records shall be maintained of the blower circulation rate, the duration of uncontrolled ventilation, and the date and time all standing liquid was removed from the tank.

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 Part 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 1,000 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 1,000 ppmv through the procedure in Special Condition No. 51.

(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 with the following exceptions:

(1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed 4,643 bbl/hr.

(2) The vapor space below the tank roof is directed to a control device when the tank is refilled until the roof is floating on the liquid. The control device used and the method and locations used to connect the control device shall be recorded. All vents from the tank being filled must exit through the control device.

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.

54. Fixed-roof storage tanks are subject to the requirements of Special Condition No. 53.C and 53.D. If the ventilation of the vapor space is controlled, the emission control system shall meet the requirements of Special Condition No. 53.B(1) through 53.B(5). Records maintained per Special Condition No. 53.F(3)(c) through 53.F(3)(e), and 53.F(4).

55. The following requirements apply to vacuum and air mover truck operations at this site:

A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC true vapor 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. Record the liquid level and document that the VOC true vapor 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 true vapor 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 exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and as required by Special Condition No. 59, measured using an instrument meeting the requirements of Special Condition No. 51.

(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.

E. If the VOC true vapor pressure of all the liquids vacuumed into the truck is less than 0.10 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Special Condition No. 55. A through D do not apply.

56. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.

A. Except for labels, logos, etc. not to exceed 15 percent of the tank/vessel total surface area, the exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled.

B. These tanks/vessels must be covered and equipped with fill pipes that discharge within six inches of the tank/vessel bottom.

C. These requirements do not apply to vessels storing less than 25 barrels of liquid that are closed such that the vessel does not vent to atmosphere.

D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12-month period. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC true vapor pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."

E. If the tank/vessel is used to store liquid with VOC true vapor pressure less than 0.10 psi at 95°F, records may be limited to the days the tank is in service and the liquid

stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.

57. The 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.

58. All permanent facilities must comply with all operating requirements, limits, and representations in the permits identified in Attachment D during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below:

    A. Combustion units, with the exception of flares, at this site are exempt from NO_x and CO operating requirements identified in special conditions in other NSR permits during planned startup and shutdown if the following criteria are satisfied.

        (1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.

        (2) The startup period does not exceed eight hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours.

        (3) Control devices are started and operating properly when venting a waste gas stream.

    B. The limits identified below apply to the operations of the specified facilities during startup and shutdown.

EPN	Source Name	Parameter	Limit	Duration
V-5	SRU TGI No.1	O_2	0.25%	<1 hour
		Temperature	750 deg F	<1 hour
V-16	SRU TGI No.2	O_2	0.25%	<1 hour
		Temperature	750 deg F	<1 hour

    C. A record shall be maintained indicating that the start and end times for each of the activities identified above occur and documentation that the requirements for each have been satisfied.

59. 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 refinery 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 two carbon canisters in series with adequate carbon supply for the emission control operation.

(2) The CAS shall be sampled down stream on 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) CAS systems equipped with an upstream liquid scrubber may be sampled once every 12 hours of CAS run time to determine breakthrough.

(b) Sampling frequency 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.

(c) 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 breakthrough is monitored on the initial sample of the upstream can when the polishing can is put in place, 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. 51.

(4) Breakthrough is defined as the highest measured VOC or benzene concentration at or exceeding 100 ppmv or 5 ppmv, respectively, 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 24 hours. In lieu of replacing canisters, the flow of waste gas may be discontinued until the canisters are switched. Sufficient new activated carbon canisters shall be available 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 percent 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.

(7) Liquid scrubbers may be used upstream of carbon canisters to enhance VOC capture provided such systems are closed systems and the spent absorbing solution is discharged into a closed container, vessel, or system

B. Single Carbon Adsorption or Scrubber System.

As an alternative to the requirements in paragraph A (6) and A (7), a single liquid scrubbing or single carbon adsorption system may be used as a sole control device if the requirements below are satisfied.

(1) The exhaust to atmosphere shall be continuously monitored with a CEM. The VOC concentration shall be recorded at least once every 15 minutes when waste gas is directed to the CAS or scrubber.

(2) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 51 except 51.C.

(3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background and 2 percent of the system inlet concentration. The MSS activity shall be stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. Monitoring must be performed upstream of the carbon can as well to demonstrate collection efficiency. The date and time of all alarms and the actions taken shall be recorded.

C. 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. Temperature measurements recorded in continuous strip charts may be used to meet the requirements of this section.

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 ±2.5°C.

D. 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 or propane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable 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 No. 51 are also acceptable for this documentation

(3) The engine shall be operated and monitored in accordance with either a or b below.

(a) 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.

(b) The engine 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 engine. The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 51.A. 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 if 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.

E. The plant flare system

(1) The heating value and velocity requirements in 40 CFR § 60.18 shall be satisfied during operations authorized by this permit.

(2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple 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.

(3) Each flare shall be equipped with one of the following:

(a) Operation and maintenance of a flare gas recovery system to be installed by December 31, 2011.

(b) A continuous flow monitor and composition analyzer that provides a record of the flare gas flow and composition of either the total VOC or heating value of the flare gas to be installed by December 31, 2011.

The flow monitor sensor and analyzer sample point shall be installed as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour. The flow monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor must be calibrated to manufacturer's specifications; the temperature monitor must be calibrated to within ± 2.0 percent at absolute temperature; the pressure monitor must be calibrated to within ±5.0 mmHg.

(c) If VOC monitoring is chosen: Calibration of the analyzer shall follow the procedures and requirements of Section 10.0 of 40 CFR Part 60, Appendix B, Performance Specification 9, as amended through October 17, 2000 (65 FR 61744), except that the multi-point calibration procedure in Section 10.1 of Performance Specification 9 shall be performed at least once every calendar quarter instead of once every month, and the mid-level calibration check procedure in Section 10.2 of Performance Specification 9 shall be performed at least once every calendar week instead of once every 24 hours. The calibration gases used for calibration procedures shall be in accordance with Section 7.1 of Performance Specification 9. Net heating value of the gas combusted in the flare shall be calculated according to the equation given in 40 CFR § 60.18(f) (3) as amended through October 17, 2000 (65 FR 61744).

(d) If heating value is chosen: 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.

(e) In all cases (VOC monitoring and/or Btu content) the monitors and analyzers shall operate as required by this section at least 95% of the time when the flares are operational, averaged over a rolling 12 month period. Flared gas net heating value and volumetric flow rate shall be recorded at least once every 15 minutes. Actual exit velocity determined in accordance with 40 CFR §60.18(f) (4) shall be available upon request. **(03/12)**

(4) Records of the flows shall be maintained for a period of five years and be made available to the Executive Director of the TCEQ upon request.

F. A liquid scrubbing system may be used as a sole control device or in conjunction with carbon adsorption 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 No. 51.A.

(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.

G. A closed loop refrigerated vapor recovery system

(1) The vapor recovery system shall be installed on the facility to be degassed using good engineering practice to ensure air contaminants are flushed from the facility through the refrigerated vapor condensers and back to the facility being degassed. The vapor recovery system and facility being degassed shall be enclosed except as necessary to insure structural integrity (such as roof vents on a floating roof tank).

(2) VOC concentration in vapor being circulated by the system shall be sampled and recorded at least once every four hours at the inlet of the condenser unit with an instrument meeting the requirements of Special Condition No. 51.

(3) The quantity of liquid recovered from the tank vapors and the tank pressure shall be monitored and recorded each hour. The liquid recovered must increase with each reading and the tank pressure shall not exceed one inch water pressure while the system is operating.

H. Other control devices approved by the TCEQ through a permit amendment application or a pollution control permit application.

60. The following requirements apply to capture systems for the plant flare system.

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 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 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.

61. If spray guns are used to apply paint, they shall be airless, high volume low pressure (HVLP), or have the same or higher transfer efficiency as airless or HVLP spray guns.

62. Emissions from all painting activities, except for minor painting identified in Attachment A to this permit, at this site must satisfy the criteria below. New compounds may also be added through the use of the procedure below.

A. Short-term (pounds per hour [lb/hr]) and annual (TPY) emissions shall be determined for each chemical in the paint as documented in the permit application. The calculated emission rate shall not exceed the maximum allowable emissions rate at any emission point.

B. The Effect Screening Level (ESL) for the material shall be obtained from the current TCEQ ESL list or by written request to the TCEQ Toxicology Section.

C. The total painting emissions of any compound must satisfy one of the following conditions:

(1) The total emission rate is less than 0.1 lb/hr and the ESL greater than or equal to 2 μg/m3; or

(2) The emission rate of the compound in pounds per hour is less than the ESL for the compound divided by 1,000 (ER<ESL/1,000).

D. The permit holder shall maintain records of the information below and the demonstrations in steps A though C above. The following documentation is required for each compound:

(1) Chemical name(s), composition, and chemical abstract registry number if available.

(2) Material Safety Data Sheet.

(3) Maximum concentration of the chemical in weight percent.

(4) Paint usage and the associated emissions shall be recorded each month and the rolling 12 month total emissions updated.

63. No visible emissions shall leave the property due to painting or abrasive blasting.

64. Black Beauty may be used for abrasive blasting. The permit holder may also use blast media that meet the criteria below: **(12/13)**

A. The media shall not contain asbestos or greater than 1.0 weight percent crystalline silica.

B. The weight fraction of any metal in the blast media with a short-term ESL less than 50 micrograms per cubic meter as identified in the most recently published TCEQ ESL list shall not exceed the ESLmetal/1,000.

C. The MSDS for each media used shall be maintained on site.

Blasting media usage and the associated emissions shall be recorded each month and the rolling 12 month total emissions updated.

65. Planned maintenance activities must be conducted in a manner consistent with good practice for minimizing emissions, including the use of air pollution control equipment, practices and processes. All reasonable and practical efforts to comply with Special Condition Nos. 48 through 64 must be used when conducting the planned maintenance activity, until the commission determines that the efforts are unreasonable or impractical, or that the activity is an unplanned maintenance activity.

66. The project authorized by the amendment application, dated June 16, 2011, is determined not to be subject to major new source review by identifying projected actual emission rates for the down-stream facilities potentially affected by the project. Projected actual and baseline emission rates for the potentially affected facilities are Tank 60M1 (EPN: S-218), FCC Gasoline Charge Heater (EPN: H-80), Loading (EPN: F-11), Vapor Combustor (EPN: FL-7) identified in Table C-1 (revised 08/23/2011) of that application. Actual emissions from those facilities shall be monitored (or calculated if no CEMS is required), recorded and reports made in accordance 30 TAC § 116.127 for the time period specified in 30 TAC § 116.127 (b) (1) for NO_x, CO, PM, SO_2, and VOC. **(09/11)**

67. The HIDL modifications authorized by the permit dated October 23, 2012, are not subject to major new source review for NO_x, CO, PM, PM_{10}, $PM_{2.5}$, SO_2, and VOC provided the projected actual emission rates for the following facilities are not exceeded. **(10/12)**

EPN/Description	Pollutant	Projected Actuals
H-48/ Diesel Hydrotreater Charge Heater	NO_x CO VOC $PM/PM_{10}/PM_{2.5}$ SO_2	13.94 tpy 32.76 tpy 2.09 tpy 2.89 tpy 1.28 tpy
H-38/ No. 2 Reformer Charge Heater	NO_x CO VOC $PM/PM_{10}/PM_{2.5}$ SO_2	32.71 tpy 70.96 tpy 4.53 tpy 6.25 tpy 2.76 tpy

Upon completion of the modifications, the actual emissions from the affected sources shall be monitored (or calculated if no CEMS is required), recorded and reports made in accordance with 30 TAC § 116.127 for a period of 5 years as specified in 30 TAC §116.127(b)(1).

68. The steam usage at the Diesel HDS Unit and #1 and #2 Crude and Vacuum Units as provided by Boiler 13 (EPN B-6), Boiler 15 (EPN B-8), Boiler 16 (EPN B-9), Boiler 18 (EPN

B-10), and Boiler 19 (EPN B-11) shall be recorded on a calendar year basis for a period of five years as specified in 30 TAC §116.127(b)(1) and shall not exceed 206,574 tpy. **(10/12)**

The owner or operator shall submit a report to the executive director if the annual emissions from the project exceed the baseline actual emissions indicated by a significant amount for that pollutant or the annual steam produced exceeds the projected annual steam usage above. The report shall be submitted to the executive director within 60 days after the end of each recording period.

Ambient Air Monitoring

69. The facility voluntarily commits to conduct fence line ambient air monitoring for Sulfur Dioxide (SO_2). The monitoring will be conducted for comparison with the 1-hr SO_2 National Ambient Air Quality Standard (NAAQS) and the results of the modeling demonstration supporting the permit amendment for the Crude Expansion Project. The SO_2 monitor and an accompanying meteorological station will be installed and operated within six (6) months after the start of operation of the proposed changes represented in the permit amendment application for the Crude Expansion Project. The monitoring will be conducted for at least one (1) full calendar year between January 1st and December 31st. If the annual 99th percentile of the daily maximum 1-hr concentrations measured during the calendar year is greater than the SO_2 1-hr NAAQS, then the facility will continue to monitor for at least one additional year thereafter. **(12/13)**

Dated: December 20, 2013

ATTACHMENT I
Permit Numbers 9708 and PSDTX861M3
Source Categories, Emission Point Numbers, and Source Names

This table lists the emission point numbers and the source names of all emission sources covered by this permit that are included in an emission cap.

Source Category	Emission Point No. (1)	Source Name (2)
COMBUSTION SOURCES:		
	B-10	No. 18 Boiler
	B-11	No. 19 Boiler
	B-12	600# Boiler
	B-22	New Boiler No. B-22
	B-4	No. 11 Boiler
	B-6	No. 13 Boiler
	B-8	No. 15 Boiler
	B-9	No. 16 Boiler
	H-1	No. 1 Crude Charge Heater
	H-11	No. 2 Crude Charge-Anderson
	H-13	GO Fractionator Heater
	H-14	Unifiner Charge Heater
	H-15	No. 1 Nap. Hydrotreater DeS_2 Reboiler
	H-18	No. 1 Reformer Charge Heater (Charge, 3, 4 Inter-Heaters)
	H-2	No. 1 Vacuum Heater
	H-26	No. 2 Vacuum Heater
	H-27	PP Mol. Sieve Regeneration Heater
	H-28	Active Butane Oxygenate Heater
	H-30	Asphalt Tank Heaters 5501, 5502, and 5503 (6 stacks)
	H-31B	Asphalt Tank Heaters 27, 28 (2 stacks)
	H-32	Asphalt Tank Heaters 20M5, 20M6 (6 stacks)
	H-32C	Asphalt Tank Heaters 20M7
	H-33	Asphalt Tank Htrs. 34, 121, 141, 551, and 552 (7 stacks)
	H-34	No. 1 Reformer Stabilizer Reboiler
	H-35	Asphalt Tank Heater 300M2 (4 stacks)
	H-36	No. 2 Naphtha Hydrotreater Charge Heater

COMBUSTION SOURCES:

H-37	No. 2 Naphtha Hydrotreater DeS2 Reboiler
H-38	No. 2 Reformer Charge Heater (Charge, 3, 4 Inter-Heaters)
H-39	No. 2 Reformer Stabilizer Reboiler
H-40	No. 1 PDA Asphalt Heater (Asphalt-South)
H-41	No. 2 Crude Charge-Born
H-42	HCU Recycle Heater
H-43	HCU DeC_4 Reboiler Heater
H-45	No. 1 Naphtha Hydrotreater Charge Heater
H-46	No. 1 Reformer No. 1 Interheater
H-48	Diesel Hydrotreater Charge Heater
H-51	Asphalt Tank Heater 300M3 (4 stacks)
H-6	DAGO Heater
H-64	No. 4 Hydrotreater Charge Heater
H-8	HCU Frac Charge Heater-Petrochem
H-80	FCC Gas HDS Charge Heater
H-9	No. 2 Crude Heater (Petrochem South)

STORAGE TANKS:

S-001	Tank 120M1
S-002	Tank 133
S-003	Tank 134
S-004	Tank 139
S-005	Tank 150M1
S-006	Tank 157
S-007	Tank 168
S-008	Tank 1001
S-009	Tank 1003
S-010	Tank 1501
S-011	Tank 1502
S-012	Tank 3001
S-013	Tank 3002
S-014	Tank 6701
S-015	Tank 6702
S-016	Tank 31
S-017	Tank 138
S-018	Tank 161
S-019	Tank 163

STORAGE TANKS:

S-020	Tank 167
S-021	Tank 101
S-022	Tank 120M2
S-023	Tank 120M3
S-024	Tank 126
S-025	Tank 151
S-026	Tank 165
S-027	Tank 166
S-028	Tank 2
S-031	Tank 100M2
S-032	Tank 140
S-033	Tank 145
S-035	Tank 147
S-037	Tank 21
S-038	Tank 22
S-039	Tank 130
S-040	Tank 148
S-042	Tank 162
S-043	Tank 164
S-044	Tank 144
S-045	Tank 127
S-046	Tank 142
S-049	Tank 155
S-052	Tank 128
S-053	Tank 222
S-055	Tank 1
S-056	Tank 137
S-057	Tank 441
S-058	Tank 442
S-059	Tank 23
S-060	Tank 24
S-063	Tank 27
S-064	Tank 28
S-065	Tank 29
S-066	Tank 30
S-067	Tank 32
S-068	Tank 33
S-069	Tank 34
S-070	Tank 121
S-071	Tank 141
S-072	Tank 551

STORAGE TANKS:

S-073	Tank 552
S-074	Tank 5501
S-075	Tank 5502
S-076	Tank 5503
S-086	Tank 143
S-090	Tank 4
S-095	Tank 100
S-137	Tank 20M5
S-138	Tank 20M6
S-139	Tank 125
S-140	Tank 181
S-141	Tank 182
S-142	Tank 232
S-143	Tank 5505
S-144	Tank 5504
S-150	Tank 300M1
S-168	N Lube Tank (T-9)
S-173	3rd from S Lube Tank (T-3)
S-174	2nd from S Lube Tank (T-2)
S-175	S. Lube Tank (T-1)
S-176	Tank 200M1
S-177	Tank 300M2
S-179	Latex Tank 1
S-180	Latex Tank 2
S-183	Tank 120M4
S-184	Tank 940T1
S-186	Tank 80M1
S-187	Tank 150M2
S-192	Tank 20M7
S-194	Tank 300M3
S-195	Tank T101
S-196	Tank T102
S-197	Tank T109
S-200	Tank 5506
S-202	Tank 100M3
S-203	Tank 150M3
S-204	Tank 150M4
S-218	Tank 60M1
S-227	Tank 5M1 (Slop Tank)
S-228	Tank 5M2 (Slop Tank)
S-229	Tank 60M2 (Benzene Concentrate Tank)

STORAGE TANKS:

S-230	Tank 150M6
S-231	Tank 150M7
S-232	Tank 200M4
S-233	Tank 940T2
S-234	Tank 200M5
S-235	Tank 200M6
S-236	Tank 150M8
S-237	Tank 150M9
OW3	Remediation Mix Oil Tank
OW15	Remediation Mix Oil Tank
TK-2020	Remediation Mix Oil Tank
TK-2021	Remediation Mix Oil Tank
TK-2022	Remediation Mix Oil Tank
1220TKMXX1	Rail Facility ULSD Flush Tankage
1220TKTXX1	Truck Rack B100 Blend Tank
1220TKTXX2	Truck Rack B100 Certification Tank
1220TKTXX3	Truck Rack B100 Certification Tank
1150TKTXX4	Pipeline B100 Blend Tank
1150TKTXX5	Pipeline B100 Blend Tank
ADDITIVETK	Biodiesel Additive Tank

PIPING COMPONENT FUGITIVES:

F-1CRUDE	No. 1 Crude/Vacuum Unit Fugitives
F-1REF_HT	No. 1 Naphtha HDS/Reformer Fugitives
F-2CRUDE	No. 2 Crude/Vacuum Unit Fugitives
F-2REF_HT	No. 2 Naphtha HDS/Reformer Fugitives
F-4HT	No. 4 Naphtha Hydrotreater Fugitives
F-85	Cleaning Slab
F-ALKY_PDA	Alky and PDA Unit Fugitives
F-ASPHALT	Heavy Oil Blending
F-BRINE	Brine Pond Fugitives
F-C4ISOM	C_4 Isom Unit Fugitives
F-CASING	Cavern Well Casing Maintenance
F-CAVERN	Storage Cavern Wellhead Fugitives
F-DESALT	Desalter Water Stripper
F-DHDSU	Diesel HDS Unit
F-ETNKFRM	East Tank Farm Fugitives
F-FCCU	FCCU Fugitives

PIPING COMPONENT FUGITIVES:

F-GASBLD	Gasoline Blending Fugitives
F-GASPLT	Gas Plant Fugitives
F-GHDS	Gasoline HDS Fugitives
F-HCU	HCU Fugitives
F-HDS_GOF	GOF Fugitives
F-LPG	LPG Storage Fugitives
F-ISOCTENE	Iso-Octene Unit Fugitives
F-NBULKLD	Loading Fugitives
F-NTNKFRM	North Tank Farm Fugitives
F-ORU	Oil Recovery Unit Fugitives
F-PENEX	Isomerization Unit Fugitives
F-PSA	Hydrogen Pressure Swing Absorption
F-PUMPSTA	Pump Station Fugitives
F-RAILLOAD	Railroad Loading Rack Fugitives
F-RLE	Light Ends Unit Fugitives
F-SBULKLD	Bulk Loading Terminal Fugitives
F-SRU1	No. 1 SRU Fugitives
F-SRU2	No. 2 SRU Fugitives
F-SWS	Sour Water Stripper Fugitives
F-UNIFINER	Unifiner Unit Fugitives
F-WTNKFRM	West Tank Farm Fugitives
F-WWTP	Wastewater Treatment Fugitives
F-MSAT	MSAT II Equipment Component Fugitives
F-MSATLOAD	MSAT II Loading Fugitives
F-FGR	FGR System Fugitives
F-SUMP	FGR Oily Water Sump Fugitives
F-ALKY	Alky Scrubber Fugitives
REMEDFUG	Remediation Fugitives
TKOW3FUG	Remediation Fugitives
TKOW15FUG	Remediation Fugitives
2021FUG	Remediation Fugitives

PRODUCT LOADING:

L-11	Truck Loading Rack
L-13	Railcar Loading Rack
L-2	Asphalt Truck Loading Rack (Asphalts)
L-5	Railcar Rack (Diesel)
L-7	Asphalt Railcar Rack
L-15	MSAT II Railcar Rack
L-14	Railcar Loading Rack

MAINTENANCE:

All Flares, All Storage Tanks (in VOC service <0.5 psia vapor pressure materials), and Piping Component Fugitive Areas (pump seal maintenance)

PROCESS VENTS:

V-13	Soda Ash Silo

PROCESS VENTS:

V-14	Water Treater Lime Silo
V-15	Boiler House Lime Silo
V-16	SRU No. 2 Incinerator
V-17	FCC Catalyst Silo Vent
V-18	No. 1 Reformer Regeneration Vent
V-20	FCC Stack Vent
V-21	No. 2 Reformer Regeneration Vent
V-26	Enviroguard Silo Vent
V-29	Sulfuric Acid Plant Stack
V-30	FCCU Spent Catalyst Roll Off
V-5	SRU No. 1 Incinerator

RELIEF VALVES:

Tank 326	Relief Valve on LPG Tank
Tank 327	Relief Valve on LPG Tank
Tank 328	Relief Valve on LPG Tank
Tank 329	Relief Valve on LPG Tank
Tank 330	Relief Valve on LPG Tank

CAS SUMPS:

CAS1	Oily Sump #7 CAS
CAS2	Crude Sump CAS
CAS3	Tank Farm CAS (150M2)
CAS4	Tank Farm CAS (150M1)
CAS5	P&T Crude Sump 1
CAS6	P&T Crude Sump 2
CAS7	Railcar Sump
FGR-SUMP	Oily Water Sump

ENGINES:

E-7	Unifiner (Clark) Compressor Engine

FLARES:

FL-1	No. 1 Main Refinery Flare
FL-3	FCCU Flare
FL-4	HCU Flare
FL-6	Wastewater Flare
FL-8	No. 2 Main Refinery Flare
FL-9	Brine Drum (pilot emissions only)(3)

VAPOR COMBUSTION UNITS:

FL-7	Loading Rack Vapor Combustor

COOLING TOWERS:

F-20	No. 1 Refinery Cooling Tower
F-21	Gasoline Plant Cooling Tower
F-47	No. 2 Refinery Cooling Tower

REMEDIATION VACUUM TRUCKS:

OW3VACTK	Remediation Vacuum Truck
OW15VACTK	Remediation Vacuum Truck
2021VACTK	Remediation Vacuum Truck
2022VACTK	Remediation Vacuum Truck

(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) The Brine Drum (FL-9) is a unique source and only pilot emissions were authorized. This source is not subject to continuous flow monitoring required for flares in the special conditions.

Dated December 20, 2013

ATTACHMENT A
Permit Numbers 9708 and PSDTX861M3
Inherently Low Emitting Activities

	Emissions				
Activity	VOC	NOx	CO	PM	H_2S/SO_2
Inspection, repair, and replacement of analyzer filters/screens	x				
Inspection, repair, and replacement of process filters/screens	x				
Inspection, repair, replacement, adjustment, testing, and calibration of CEMS analyzers		x	x		x
Inspection, repair, replacement, adjustment, testing, and calibration of process instrumentation	x				
Carbon canister inspection, repair, and replacement (valve disconnect)	x				
Catalyst replacement	x				
Tank seal inspections and other tank inspection activities	x				
Water washing empty drums, totes, and misc. small equipment	x				
Meter proving	x				
Adhesives application	x				
Sample collection	x				
Cold solvent degreaser	x				
Insulation/refractory handling				x	
Combinations of the above	x	x	x	x	x

Dated December 16, 2010

ATTACHMENT B
Permit Numbers 9708 and PSDTX861M3
Routine Maintenance Activities

Planned MSS activities performed with work orders where the isolated system volume is less than 30 cubic feet. These include activities such as:

Pump, compressor, vessel, exchanger, combustion source, boiler inspection, repair, replacement, valve and piping maintenance/replacement not included in Attachment A

Pipeline pigging, compressor maintenance, maintenance on light liquid pumps where purged to slop or flare, maintenance on heavy liquid pumps where purged to slop or flare, maintenance on heavy liquid pumps where purged to open containers

Dated December 16, 2010

ATTACHMENT C
Permit Numbers 9708 and PSDTX861M3
MSS Activity Summary

Facilities	Description	Emissions Activity
all process heaters and boilers	heater, boiler, and/or SCR shutdown, startup, refractory curing, and/or maintenance	vent to atmosphere
all process units	process unit and/or individual equipment shutdown/depressurize/drain	vent to flare
all process units	process unit and/or individual equipment purge/degas/drain/clean	vent to atmosphere
all process units	process unit and/or individual equipment process unit startup	vent to flare
all process vents	shutdown, startup, and/or maintenance	vent to atmosphere
all vacuum or air mover trucks	various maintenance activities	vent to control device and/or atmosphere
all frac or temporary tanks	various maintenance activities	vent to control device and/or atmosphere
all process units and tanks	preparation for facility/component repair/replacement	vent to flare and/or equivalent control
all process units and tanks	preparation for facility/component repair/replacement	vent to atmosphere
all process units and tanks	including but not limited to: recovery from facility/component repair/replacement	vent to flare and/or equivalent control
all process units and tanks	recovery from facility / component repair/replacement	vent to atmosphere
all process units and tanks	preparation for unit turnaround or facility/component repair/replacement	remove liquid
all production-related	all production related refinery facilities	painting
all floating roof tanks	tank roof landing	operation with landed roof
all floating roof tanks	degas of tank with landed roof	controlled degassing
all tanks	tank cleaning	cleaning activity and solvents
see Attachment A	miscellaneous low emitting activities	see Attachment A
all production-related	abrasive blasting	PM from blasting media

Dated December 16, 2010

ATTACHMENT D
Permit Numbers 9708 and PSDTX861M3
Facility List

COMBUSTION SOURCES:

EPN	Source Name
B-10	No. 18 Boiler
B-11	No. 19 Boiler
B-12	600 # Boiler
B-22	Boiler B-22
B-4	No. 11 Boiler
B-6	No. 13 Boiler
B-8	No. 15 Boiler
B-9	No. 16 Boiler
H-1	No. 1 Crude Charge Heater
H-11	No. 2 Crude Charge-Anderson
H-13	GO Fractionator Heater
H-14	Unifiner Charge Heater
H-15	No. 1 Nap. Hydrotreater DeS_2 Reboiler
H-18	No. 1 Reformer Charge Heater (Charge, 3, 4 Inter-
H-2	No. 1 Vacuum Heater
H-26	No. 2 Vacuum Heater
H-27	PP Mol. Sieve Regeneration Heater
H-28	Active Butane Oxygenate Heater
H-30	Asphalt Tank Heaters 5501, 5502, and 5503 (6 stacks)
H-31B	Asphalt Tank Heaters 27, 28 (2 stacks)
H-32	Asphalt Tank Heaters 20M5, 20M6 (6 stacks)
H-32C	Asphalt Tank Heaters 20M7
H-33	Asphalt Tank Htrs. 34, 121, 141, 551, and 552 (7 stacks)
H-34	No. 1 Reformer Stabilizer Reboiler
H-35	Asphalt Tank Heater 300M2 (4 stacks)
H-36	No. 2 Naphtha Hydrotreater Charge Heater
H-37	No. 2 Naphtha Hydrotreater DeS2 Reboiler
H-38	No. 2 Reformer Charge Heater (Charge, 3, 4 Inter-

COMBUSTION SOURCES:

H-39	No. 2 Reformer Stabilizer Reboiler
H-40	No. 1 PDA Asphalt Heater (Asphalt-South)
H-41	No. 2 Crude Charge-Born
H-42	HCU Recycle Heater
H-43	HCU DeC_4 Reboiler Heater
H-45	No. 1 Naphtha Hydrotreater Charge Heater
H-46	No. 1 Reformer No. 1 Interheater
H-48	Diesel Hydrotreater Charge Heater
H-51	Asphalt Tank Heater 300M3 (4 stacks)
H-6	DAGO Heater
H-64	No. 4 Hydrotreater Charge Heater
H-8	HCU Charge Heater (Petrochem North)
H-80	FCC Gas HDS Charge Heater
H-88	Acid Plant Feed Heater
H-9	No. 2 Crude Heater (Petrochem South)

STORAGE TANKS:

EPN	**Source Name**
S-001	Tank 120M1
S-002	Tank 133
S-003	Tank 134
S-004	Tank 139
S-005	Tank 150M1
S-006	Tank 157
S-007	Tank 168
S-008	Tank 1001
S-009	Tank 1003
S-010	Tank 1501
S-011	Tank 1502

STORAGE TANKS:

S-012	Tank 3001
S-013	Tank 3002
S-014	Tank 6701
S-015	Tank 6702
S-016	Tank 31
S-017	Tank 138
S-018	Tank 161
S-019	Tank 163
S-020	Tank 167
S-021	Tank 101
S-022	Tank 120M2
S-023	Tank 120M3
S-024	Tank 126
S-025	Tank 151
S-026	Tank 165
S-027	Tank 166
S-028	Tank 2
S-031	Tank 100M2
S-032	Tank 140
S-033	Tank 145
S-035	Tank 147
S-037	Tank 21
S-038	Tank 22
S-039	Tank 130
S-040	Tank 148
S-042	Tank 162
S-043	Tank 164
S-044	Tank 144
S-045	Tank 127
S-046	Tank 142

STORAGE TANKS:

S-049	Tank 155
S-052	Tank 128
S-053	Tank 222
S-055	Tank 1
S-056	Tank 137
S-057	Tank 441
S-058	Tank 442
S-059	Tank 23
S-060	Tank 24
S-063	Tank 27
S-064	Tank 28
S-065	Tank 29
S-066	Tank 30
S-067	Tank 32
S-068	Tank 33
S-069	Tank 34
S-070	Tank 121
S-071	Tank 141
S-072	Tank 551
S-073	Tank 552
S-074	Tank 5501
S-075	Tank 5502
S-076	Tank 5503
S-086	Tank 143
S-090	Tank 4
S-095	Tank 100
S-137	Tank 20M5
S-138	Tank 20M6
S-139	Tank 125
S-140	Tank 181

STORAGE TANKS:

S-141	Tank 182
S-142	Tank 232
S-143	Tank 5505
S-144	Tank 5504
S-150	Tank 300M1
S-168	N Lube Tank (T-9)
S-173	3rd from S Lube Tank (T-3)
S-174	2nd from S Lube Tank (T-2)
S-175	S. Lube Tank (T-1)
S-176	Tank 200M1
S-177	Tank 300M2
S-179	Latex Tank 1
S-180	Latex Tank 2
S-183	Tank 120M4
S-184	Tank 940T1
S-186	Tank 80M1
S-187	Tank 150M2
S-192	Tank 20M7
S-194	Tank 300M3
S-195	Tank T101
S-196	Tank T102
S-197	Tank T109
S-200	Tank 5506
S-202	Tank 100M3
S-203	Tank 150M3
S-204	Tank 150M4
S-218	Tank 60M1
S-227	Tank 5M1 (Slop Tank)
S-228	Tank 5M2 (Slop Tank)
S-229	Tank 60M2 (Benzene Concentrate Tank)

STORAGE TANKS:

S-230	Tank 150M6
S-231	Tank 150M7
S-232	Tank 200M4
S-233	Tank 940T2
S-234	Tank 200M5
S-235	Tank 200M6
S-236	Tank 150M8
S-237	Tank 150M9
OW3	Remediation Mix Oil Tank
OW15	Remediation Mix Oil Tank
TK-2020	Remediation Mix Oil Tank
TK-2021	Remediation Mix Oil Tank
TK-2022	Remediation Mix Oil Tank
1220TKMXX1	Rail Facility ULSD Flush Tankage
1220TKTXX1	Truck Rack B100 Blend Tank
1220TKTXX2	Truck Rack B100 Certification Tank
1220TKTXX3	Truck Rack B100 Certification Tank
1150TKTXX4	Pipeline B100 Blend Tank
1150TKTXX5	Pipeline B100 Blend Tank

PIPING COMPONENT FUGITIVES:

EPN	**Source Name**
F-1CRUDE	No. 1 Crude/Vacuum Unit Fugitives
F-1REF_HT	No. 1 Naphtha HDS/Reformer Fugitives
F-2CRUDE	No. 2 Crude/Vacuum Unit Fugitives
F-2REF_HT	No. 2 Naphtha HDS/Reformer Fugitives
F-4HT	No. 4 Naphtha Hydrotreater Fugitives
F-85	Cleaning Slab
F-ALKY_PDA	Alky and PDA Unit Fugitives
F-ASPHALT	Heavy Oil Blending

PIPING COMPONENT FUGITIVES:

F-BRINE	Brine Pond Fugitives
F-CASING	Cavern Well Casing Maintenance
F-CAVERN	Storage Cavern Wellhead Fugitives
F-DESALT	Desalter Water Stripper
F-DHDSU	Diesel HDS Unit
F-ETNKFRM	East Tank Farm Fugitives
F-FCCU	FCCU Fugitives
F-GASBLD	Gasoline Blending Fugitives
F-GASPLT	Gas Plant Fugitives
F-GHDS	Gasoline HDS Fugitives
F-HCU	HCU Fugitives
F-HDS_GOF	GOF Fugitives
F-IOCTENE	Isooctene Fugitives
F-LPG	LPG Storage Fugitive
F-NBULKLD	Loading Fugitives
F-NTNKFRM	North Tank Farm Fugitives
F-ORU	Oil Recovery Unit Fugitives
F-PENEX	Isomerization Unit Fugitives
F-PSA	Hydrogen Pressure Swing Absorption
F-PUMPSTA	Pump Station Fugitives
F-RAILLOAD	Railroad Loading Rack Fugitives
F-RLE	Light Ends Unit Fugitives
F-SBULKLD	Bulk Loading Terminal Fugitives
F-SRU1	No. 1 SRU Fugitives
F-SRU2	No. 2 SRU Fugitives
F-SWS	Sour Water Stripper Fugitives
F-UNIFINER	Unifiner Unit Fugitives
F-WTNKFRM	West Tank Farm Fugitives
F-WWTP	Wastewater Treatment Fugitives
F-MSAT	MSAT II Equipment Component Fugitives
F-MSATLOAD	MSAT II Loading Fugitives
F-FGR	FGR System Fugitives

F-AMINE2	FGR Amine System Fugitives
F-SUMP	FGR Oily Water Sump Fugitives
F-ALKY	Alky Scrubber Fugitives
REMEDFUG	Remediation Fugitives
TKOW3FUG	Remediation Fugitives
TKOW15FUG	Remediation Fugitives
2021FUG	Remediation Fugitives
2022FUG	Remediation Fugitives

PRODUCT LOADING:

EPN	Source Name
L-11	Truck Loading Rack
L-13	Railcar Loading Rack
L-2	Asphalt Truck Loading Rack (Asphalts)
L-5	Railcar Rack (Diesel)
L-7	Asphalt Railcar Rack
L-15	MSAT II Railcar Rack
L-14	Railcar Loading Rack

PROCESS VENTS:

EPN	Source Name
V-13	Soda Ash Silo
V-14	Water Treater Lime Silo
V-15	Boiler House Lime Silo
V-16	SRU No. 2 Incinerator
V-17	FCC Catalyst Silo Vent
V-18	No. 1 Reformer Regeneration Vent
V-20	FCC Stack Vent
V-21	No. 2 Reformer Regeneration Vent
V-26	Enviroguard Silo Vent
V-29	Sulfuric Acid Plant Stack
V-30	FCCU Spent Catalyst Roll Off
V-5	SRU No. 1 Incinerator

RELIEF VALVES:

EPN	Source Name
Tank 326	Relief Valve on LPG Tank
Tank 327	Relief Valve on LPG Tank
Tank 328	Relief Valve on LPG Tank
Tank 329	Relief Valve on LPG Tank
Tank 330	Relief Valve on LPG Tank

CAS SUMPS:

EPN	Source Name
CAS1	Oily Sump #7 CAS
CAS2	Crude Sump CAS
CAS3	Tank Farm CAS (150M2)
CAS4	Tank Farm CAS (150M1)
CAS5	P&T Crude Sump 1
CAS6	P&T Crude Sump 2
CAS7	Railcar Sump
FGR-SUMP	Oily Water Sump

ENGINES:

EPN	Source Name
E-7	Unifiner (Clark) Compressor Engine

FLARES:

EPN	Source Name
FL-1	No. 1 Main Refinery Flare
FL-3	FCCU Flare
FL-4	HCU Flare
FL-6	Wastewater Flare
FL-8	No. 2 Main Refinery Flare
FL-9	Brine Drum (pilot emissions only)(3)

VAPOR COMBUSTION UNITS:

EPN	Source Name
FL-7	Loading Rack Vapor Combustor

COOLING TOWERS:

EPN	Source Name
F-20	No. 1 Refinery Cooling Tower
F-47	No. 2 Refinery Cooling Tower
F-21	Gasoline Plant Cooling Tower

MISCELLANEOUS SOURCES:

EPN	SOURCE NAME
MSS_VAC	Vacuum Truck Emissions
MSS_FRAC	Frac Tank Emissions
MSS_PUMP	Pump Opening
MSS_HE	Heat Exchanger Opening
MSS_INCIN	Temporary Incinerator
MSS_ENG	Temporary Engine
MSS_Boiler	Temporary Boiler
MSS_AERO	Aerosol Paint
MSS_CHEM	Chemical Usage
MSS_NPNT	Non-aerosol Paint
MSS_ABRBLS	Abrasive Blasting
MSS_WELD	Welding
MSS_INS	Insignificant Activities
MSS_REFSPLT	Reformate Splitter Depressure to Atm

Dated: December 20, 2013

ATTACHMENT E

Permit Numbers 9708 and PSDTX861M3

Boiler and Heater Limits

EPN	Name	Short term firing rate (MMBtu/hr)	Annual Average Firing Rate (MMBtu/hr)	Maximum CO concentration (ppmvd)	Annual Average CO Concentration (ppmvd)	[1]Maximum NO_x Emission Factor, 3-hr average (lb/MMBtu)	Annual Ave NO_x Emission Factor, 365-day Rolling Average (lb/MMBtu)
B-10	No. 18 Boiler	223.77	223.77	177	83	0.039	0.039
B-11	No. 19 Boiler	223.77	223.80	100	100	0.039	0.039
B-12	600# Boiler	246.42	197.14	100	100	0.20	0.18
B-4	No. 11 Boiler	89.51	71.61	100	100	0.19	0.19
B-6	No. 13 Boiler	82.10	65.68	100	100	0.21	0.21
B-22	Boiler B-22	225	225	100	50	0.015	0.01
B-8	No. 15 Boiler	156.64	125.36	100	100	0.06	0.06
B-9	No. 16 Boiler	156.69	125.36	100	100	0.084	0.064
H-1	No. 1 Crude Charge Heater	309.76	265.21	100	100	0.06	0.040
H-11	No. 2 Crude Charge Heater (Anderson)	92.20	77.35	100	100	0.042	0.042
H-13	Gas Oil Frac. Heater	40.0	40.0	100	100	0.1	0.1
H-14	Unifiner Charge Heater	26.52	26.52	100	100	0.098	0.098
H-15	No. 1 Hydrotreater Charge Heater	36.13	36.13	100	100	0.045	0.045
H-18	C.C.R. Charge Heater	359.13	274.05	100	38	0.050	0.044
H-2	No. 1 Vacuum Charge Heater	88.0	75.14	100	50	0.035	0.035
H-26	No. 2 Vacuum Charge Heater	92.34	81.77	100	100	0.044	0.044

EPN	Name	Short term firing rate (MMBtu/hr)	Annual Average Firing Rate (MMBtu/hr)	Maximum CO concentration (ppmvd)	Annual Average CO Concentration (ppmvd)	[1]Maximum NO_x Emission Factor, 3-hr average (lb/MMBtu)	Annual Ave NO_x Emission Factor, 365-day Rolling Average (lb/MMBtu)
H-27	"P/P" Mole Sieve Regeneration Heater	9.61	7.06	100	100	0.140	0.14
H-36	No. 2 Naphtha Hydrotreater Charge Heater	57.46	57.46	100	50	0.031	0.031
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	63.98	36.47	100	100	0.100	0.100
H-38	#2 Reformer Charge Heater	348.1	246.3	100	87	0.039	0.039
H-39	#2 Reformer Stabilizer Reboiler Heater	28.90	24.31	100	100	0.120	0.120
H-40	P.D.A. Asph. Htr.	79.80	66.30	100	50	0.128	0.128
H-41	No. 2 Crude Charge Heater	309.41	309.41	100	38	0.053	0.053
H-42	Hydrocracker Recycle Heater	99.0	85.09	100	50	0.041	0.041
H-43	Hydrocracker "DEC4" Reboiler Heater	87.08	87.08	100	50	0.038	0.038
H-45	#1 Hydrotreater Charge Heater	70.10	70.10	100	50	0.038	0.038
H-46	C.C.R. Interheater	207.16	162.66	100	100	0.046	0.046
H-48	Diesel Hydrotreater Charge Heater	95.00	95.00	100	50	0.036	0.036

EPN	Name	Short term firing rate (MMBtu/hr)	Annual Average Firing Rate (MMBtu/hr)	Maximum CO concentration (ppmvd)	Annual Average CO Concentration (ppmvd)	[1]Maximum NO_x Emission Factor, 3-hr average (lb/MMBtu)	Annual Ave NO_x Emission Factor, 365-day Rolling Average (lb/MMBtu)
H-6	Dago Heater	28.29	28.29	100	100	0.120	0.120
H-64	No. 4 Hydrotreater Charge Heater	33.3	33.3	100	50	0.038	0.038
H-8	HCU Frac Charge Heater (Petrochem North)	88.4	88.4	100	100	0.053	0.053
H-80	FCC Gas HDS Charge Heater	98.40	98.40	100	100	0.031	0.031
H-9	No. 2 Crude Heater-(Petrochem South)	88.40	88.40	100	50	0.036	0.036

[1] Heaters H-27, H-39, and H-6 are smaller than 40 MMBtu/hr and are not required to conduct stack testing; therefore, their NOx emission factors are based on AP-42, and not on 3-hour average.

Dated December 20, 2013

Emission Sources - Maximum Allowable Emission Rates

Permit Number 9708 and PSDTX861M3

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)
BENZENE CAPS: Tanks, Cooling Towers, Loading, and Fugitives (5)		Benzene	11.90	18.34
H_2S CAPS: Process Vents and Maintenance		H_2S	5.40	0.014
SULFURIC ACID CAPS (H_2SO_4): Process Vents		H_2SO_4	12.40	54.10
CHLORINE CAPS: Process Vents		Cl_2	0.40	0.50
HCl CAPS: Process Vents and Maintenance		HCl	7.10	4.29
NH_3 CAPS: Process Vents, Fugitives, and Maintenance		NH_3	800.40	164.80
MAINTENANCE EMISSIONS CAPS:		VOC	3926.35	49.72
		NO_x	101.41	2.55
		CO	654.79	7.60
		SO_2	1768.80	6.13
		H_2S	19.31	0.05
		HCl	4.00	< 0.01
		NH_3	700.00	0.95
		PM	1.98	0.40

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
B-10	No. 18 Boiler	NO_x	8.73	38.22
		CO	34.12	66.33
		VOC	1.21	5.28
		SO_2	2.32	10.16
		PM	1.67	7.30
		PM_{10}	1.67	7.30
		$PM_{2.5}$	1.67	7.30
B-11	No. 19 Boiler	NO_x	8.73	38.23
		CO	18.93	82.93
		VOC	1.21	5.28
		SO_2	2.32	10.16
		PM	1.67	7.30
		PM_{10}	1.67	7.30
		$PM_{2.5}$	1.67	7.30
B-12	600# Boiler	NO_x	49.28	172.69
		CO	20.85	73.05
		VOC	1.33	4.66
		SO_2	7.58	11.91
		PM	1.84	6.43
		PM_{10}	1.84	6.43
		$PM_{2.5}$	1.84	6.43

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
B-22	Boiler B-22	NO_x	3.38	9.86
		CO	15.95	34.92
		VOC	1.21	5.31
		SO_2	5.05	10.22
		PM	1.68	7.34
		PM_{10}	1.68	7.34
		$PM_{2.5}$	1.68	7.34
B-4	No. 11 Boiler	NO_x	17.01	59.59
		CO	7.57	18.32
		VOC	0.48	1.59
		SO_2	1.78	2.35
		PM	0.67	2.18
		PM_{10}	0.67	2.18
		$PM_{2.5}$	0.67	2.18
B-6	No. 13 Boiler	NO_x	17.24	60.42
		CO	6.95	17.59
		VOC	0.44	1.55
		SO_2	1.81	2.3
		PM	0.61	2.14
		PM_{10}	0.61	2.14
		$PM_{2.5}$	0.61	2.14

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
B-8	No. 15 Boiler	NO_x	9.40	32.94
		CO	25.20	46.45
		VOC	0.84	2.34
		SO_2	3.22	4.05
		PM	1.17	3.23
		PM_{10}	1.17	3.23
		$PM_{2.5}$	1.17	3.23
B-9	No. 16 Boiler	NO_x	13.16	32.94
		CO	13.26	46.45
		VOC	0.84	2.96
		SO_2	3.61	5.57
		PM	1.17	4.08
		PM_{10}	1.17	4.08
		$PM_{2.5}$	1.17	4.08
H-1	No. 1 Crude Charge Heater	NO_x	18.59	46.46
		CO	21.95	82.33
		VOC	1.67	6.26
		SO_2	6.96	12.04
		PM	2.31	8.66
		PM_{10}	2.31	8.66
		$PM_{2.5}$	2.31	8.66

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-11	No. 2 Crude Charge Heater (Anderson)	NO_x	3.87	14.23
		CO	6.53	24.01
		VOC	0.50	1.83
		SO_2	2.07	3.51
		PM	0.69	2.52
		PM_{10}	0.69	2.52
		$PM_{2.5}$	0.69	2.52
H-13	Gas Oil Frac. Heater	NO_x	4.00	17.52
		CO	2.83	12.41
		VOC	0.22	0.94
		SO_2	0.90	1.82
		PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
H-14	Unifiner Charge Heater	NO_x	2.60	11.38
		CO	1.88	8.23
		VOC	0.14	0.63
		SO_2	0.60	1.20
		PM	0.20	0.87
		PM_{10}	0.20	0.87
		$PM_{2.5}$	0.20	0.87

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-15	No. 1 Hydrotreater Charge Heater	NO_x	1.63	7.12
		CO	2.56	11.21
		VOC	0.19	0.85
		SO_2	0.81	1.64
		PM	0.27	1.18
		PM_{10}	0.27	1.18
		$PM_{2.5}$	0.27	1.18
H-18	C.C.R. Charge Heater	NO_x	17.96	52.81
		CO	26.28	33.37
		VOC	1.94	6.47
		SO_2	8.07	12.44
		PM	2.68	8.94
		PM_{10}	2.68	8.94
		$PM_{2.5}$	2.68	8.94
H-2	No. 1 Vacuum Charge Heater	NO_x	3.08	11.52
		CO	6.24	11.66
		VOC	0.47	1.77
		SO_2	1.98	3.41
		PM	0.66	2.45
		PM_{10}	0.66	2.45
		$PM_{2.5}$	0.66	2.45

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-26	No. 2 Vacuum Charge Heater	NO_x	4.06	15.76
		CO	6.54	25.38
		VOC	0.50	1.93
		SO_2	2.07	3.71
		PM	0.69	2.67
		PM_{10}	0.69	2.67
		$PM_{2.5}$	0.69	2.67
H-27	"P/P" Mole Sieve Regeneration Heater	NO_x	1.35	0.76
		CO	0.81	0.65
		VOC	0.05	0.04
		SO_2	0.22	0.22
		PM	0.07	0.06
		PM_{10}	0.07	0.06
		$PM_{2.5}$	0.07	0.06
H-28	Active Butane Oxygenate Heater	NO_x	1.16	5.08
		CO	1.00	3.25
		VOC	0.06	0.28
		SO_2	0.33	1.45
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-30	Asphalt Tank Heaters (5501 and 5502)	NO_x	2.54	11.12
		CO	0.82	3.57
		VOC	0.05	0.23
		SO_2	0.27	1.18
		PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
H-31B	Tanks 27, 28 Heater	NO_x	0.44	1.92
		CO	0.14	0.62
		VOC	0.01	0.04
		SO_2	0.05	0.20
		PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
H-32	Tank Heaters ("20MS" and "20M6")	NO_x	0.80	3.50
		CO	0.56	2.46
		VOC	0.04	0.16
		SO_2	0.19	0.82
		PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.05	0.22

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-32C	Asphalt Tank Heater "20M7"	NO_x	0.33	1.43
		CO	0.28	1.23
		VOC	0.02	0.08
		SO_2	0.09	0.41
		PM	0.02	0.11
		PM_{10}	0.02	0.11
		$PM_{2.5}$	0.02	0.11
H-33	Tank Heaters 34, 551, 121, 141, and 552	NO_x	1.99	8.74
		CO	1.40	6.16
		VOC	0.09	0.39
		SO_2	0.46	2.04
		PM	0.12	0.54
		PM_{10}	0.12	0.54
		$PM_{2.5}$	0.12	0.54
H-34	C.C.D.R. Stabilizer Reboiler Heater	NO_x	3.08	20.45
		CO	2.17	8.68
		VOC	0.14	0.59
		SO_2	0.68	1.21
		PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.19	0.81

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-35	Tank "300M2" Heaters (4 Stacks)	NO_x	1.59	6.99
		CO	1.12	4.93
		VOC	0.07	0.31
		SO_2	0.37	1.63
		PM	0.10	0.43
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.10	0.43
H-36	No. 2 Naphtha Hydrotreater Charge Heater	NO_x	1.78	7.80
		CO	4.07	8.92
		VOC	0.31	1.36
		SO_2	1.29	2.61
		PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.43	1.88
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	NO_x	6.40	15.97
		CO	4.53	11.32
		VOC	0.34	0.86
		SO_2	1.44	1.66
		PM	0.48	1.19
		PM_{10}	0.48	1.19
		$PM_{2.5}$	0.48	1.19

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-38	#2 Reformer Charge Heater	NO_x	13.58	42.07
		CO	24.66	66.50
		VOC	1.88	5.82
		SO_2	7.82	11.18
		PM	2.59	8.04
		PM_{10}	2.59	8.04
		$PM_{2.5}$	2.59	8.04
H-39	#2 Reformer Stabilizer Reboiler Heater	NO_x	3.47	12.78
		CO	2.05	7.55
		VOC	0.16	0.57
		SO_2	0.65	1.10
		PM	0.22	0.79
		PM_{10}	0.22	0.79
		$PM_{2.5}$	0.22	0.79
H-40	P.D.A. Asph. Htr.	NO_x	10.21	37.17
		CO	5.65	10.29
		VOC	0.43	1.56
		SO_2	1.79	3.01
		PM	0.59	2.16
		PM_{10}	0.59	2.16
		$PM_{2.5}$	0.59	2.16

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-41	No. 2 Crude Charge Heater	NO_x	16.40	71.83
		CO	21.92	36.49
		VOC	1.67	7.31
		SO_2	6.95	14.05
		PM	2.31	10.10
		PM_{10}	2.31	10.10
		$PM_{2.5}$	2.31	10.10
H-42	Hydrocracker Recycle Heater	NO_x	4.06	15.28
		CO	7.01	13.20
		VOC	0.53	2.01
		SO_2	2.22	3.86
		PM	0.74	2.78
		PM_{10}	0.74	2.78
		$PM_{2.5}$	0.74	2.78
H-43	Hydrocracker "DEC4" Reboiler Heater	NO_x	3.31	14.49
		CO	6.17	13.51
		VOC	0.47	2.06
		SO_2	1.96	3.95
		PM	0.65	2.84
		PM_{10}	0.65	2.84
		$PM_{2.5}$	0.65	2.84

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-45	#1 Hydrotreater Charge Heater	NO_x	2.66	11.67
		CO	4.97	10.88
		VOC	0.38	1.66
		SO_2	1.57	3.18
		PM	0.52	2.29
		PM_{10}	0.52	2.29
		$PM_{2.5}$	0.52	2.29
H-46	C.C.R. Interheater	NO_x	9.53	32.77
		CO	17.53	60.27
		VOC	1.12	3.84
		SO_2	4.66	8.79
		PM	1.54	5.31
		PM_{10}	1.54	5.31
		$PM_{2.5}$	1.54	5.31
H-48	Diesel Hydrotreater Charge Heater	NO_x	3.42	14.98
		CO	6.73	14.74
		VOC	0.51	2.24
		SO_2	2.13	4.31
		PM	0.71	3.10
		PM_{10}	0.71	3.10
		$PM_{2.5}$	0.71	3.10

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-51	Asphalt Tank Heater 300M3 (4 Stacks)	NO_x	0.53	2.33
		CO	1.12	4.93
		VOC	0.07	0.31
		SO_2	0.37	1.63
		PM	0.10	0.43
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.10	0.43
H-6	Dago Heater	NO_x	3.39	14.87
		CO	2.01	8.78
		VOC	0.15	0.67
		SO_2	0.64	1.28
		PM	0.21	0.92
		PM_{10}	0.21	0.92
		$PM_{2.5}$	0.21	0.92
H-64	No. 4 Hydrotreater Charge Heater	NO_x	1.26	5.54
		CO	2.36	5.16
		VOC	0.18	0.79
		SO_2	0.75	1.51
		PM	0.25	1.09
		PM_{10}	0.25	1.09
		$PM_{2.5}$	0.25	1.09

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-8	HCU Fract Charge Heater (Petrochem North)	NO_x	4.69	20.52
		CO	6.26	27.43
		VOC	0.48	2.09
		SO_2	1.99	4.01
		PM	0.66	2.88
		PM_{10}	0.66	2.88
		$PM_{2.5}$	0.66	2.88
H-80	FCC Gas HDS Charge Heater	NO_x	3.05	13.36
		CO	6.97	30.54
		VOC	0.53	2.32
		SO_2	2.21	4.47
		PM	0.73	3.21
		PM_{10}	0.73	3.21
		$PM_{2.5}$	0.73	3.21
H-88	Acid Plant Feed Heater	NO_x	0.79	3.46
		CO	0.48	0.43
		VOC	0.03	0.03
		SO_2	0.16	0.50
		PM	0.04	0.04
		PM_{10}	0.04	0.04
		$PM_{2.5}$	0.04	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)
H-9	No. 2 Crude Heater (Petrochem South)	NO_x	3.18	13.94
		CO	6.26	13.72
		VOC	0.48	2.09
		SO_2	1.99	4.01
		PM	0.66	2.88
		PM_{10}	0.66	2.88
		$PM_{2.5}$	0.66	2.88
F-20	No. 1 Refinery Cooling Tower	VOC (5)	3.52	15.40
		PM	3.06	13.41
		PM_{10}	0.51	2.24
		$PM_{2.5}$	<0.01	0.02
F-21	Gasoline Plant Cooling Tower	VOC (5)	2.90	12.69
		PM	2.54	11.13
		PM_{10}	0.42	1.83
		$PM_{2.5}$	0.0033	0.015
F-47	No. 2 Refinery Cooling Tower	VOC (5)	2.28	9.97
		PM	2.16	9.48
		PM_{10}	0.30	1.29
		$PM_{2.5}$	0.003	0.012

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E-7	Unifiner Engine (Clark)	NO_x	4.56	19.98
		CO	0.08	0.36
		VOC	0.17	0.76
		SO_2	0.01	0.01
		PM	0.07	0.29
		PM_{10}	0.07	0.29
		$PM_{2.5}$	0.07	0.29
FL-9	Brine Degas Drum	NO_x	8.21	0.99
		CO	16.38	1.98
		VOC	30.15	5.52
		SO_2	0.01	0.01
FL-6	Wastewater Flare	NO_x	2.09	4.59
		CO	10.66	23.38
		VOC	5.00	10.94
		SO_2	2.03	1.33
		H_2S	0.02	0.01
		NH_3	< 0.01	<0.01
Combined Compliance Short Term and Annual Caps for Flares FL-1, FL-3, FL-4, and FL-8 (11)		NO_x	40.46	34.31
		CO	210.06	190.66
		VOC	352.09	179.46
		SO_2	19.05	15.69
		H_2S	6.07	0.27
FGR-SUMP	FGR Oily Water Sump	VOC	0.03	0.07

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FL-7	Loading Rack Vapor Combustor	NO_x	6.12	13.24
		CO	17.79	36.42
		VOC	18.01	16.53
		SO_2	0.13	0.09
L-13	Railcar Loading Rack	VOC	0.25	0.15
L-14	North Railcar Rack	VOC	18.35	0.81
L-2	Asphalt Truck Loading Rack	VOC	4.49	2.28
L-5/L-11	Railcar/ Truck Loading Rack	VOC	13.15	17.23
L-7	Asphalt Railcar Rack	VOC	0.42	1.37
V-29	Sulfuric Acid Plant Vent	SO_2	21.67	70.17
V-20	F.C.C.U. (Fluidized Catalytic Cracking Unit)	NO_x	220.11	163.36
		CO	37.80	93.07
		VOC	10.55	38.19
		SO_2	459.69	138.69
		PM	80.00	294.02
		PM_{10}	80.00	294.02
		$PM_{2.5}$	80.00	294.02
		NH_3 (6)	40.74	146.00
		H_2SO_4	12.40	41.98
V-18	No. 1 Reformer Cat Regenerator Vent	CO	3.27	14.31
		VOC	0.62	2.72

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
V-21	No. 2 Reformer Cat Regenerator Vent	CO	70.00	3.36
		VOC	0.032	<0.01
V-13	Soda Ash Silo	PM	0.09	0.02
		PM_{10}	0.09	0.02
		$PM_{2.5}$	0.09	0.02
V-14	Lime Silo Vent	PM	0.09	0.02
		PM_{10}	0.09	0.02
		$PM_{2.5}$	0.09	0.02
V-17	FCC Catalyst Silo Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
V-5	SRU No. 1 Incinerator	NO_x	0.40	1.75
		CO	1.87	8.20
		VOC	0.19	0.82
		SO_2	10.69	46.84
		H_2S	0.11	0.50
		PM	0.38	1.67
		PM_{10}	0.38	1.67
		$PM_{2.5}$	0.38	1.67

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
V-16	SRU No. 2 Incinerator	NO_x	0.56	2.45
		CO	13.66	59.82
		VOC	0.2	0.87
		SO_2	10.96	48.01
		H_2S	0.12	0.51
		PM	0.84	3.68
		PM_{10}	0.84	3.68
		$PM_{2.5}$	0.84	3.68
V-30	FCCU Spent Catalyst Roll Off Boxes	PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
S-044	Tank 144	Caustic	0.01	0.01
S-142	Tank 232	Caustic	0.01	0.01
CARBON CAN	Carbon Canister System Fugitives (CAS1 - CAS7 & FGR Sump)	VOC	5.04	11.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-1CRUDE, F-1REF_HT, F-2CRUDE, F-2REF_HT, F-4HT, F-85, F-HCU, F-ALKY_PDA, F-ASPHALT, F-BRINE, F-C4ISOM, F-CASING, F-CAVERN, F-FGR, F-DESALT, F-DHDSU, F-ETNKFRM, F-FCCU, F-GASBLD, F-GASPLT, F-GHDS, F-HDS_GOF, F-LPG, F-IOCTENE, F-NBULKLD, F-NTNKFRM, F-ORU, F-PENEX, F-PSA, F-PUMPSTA, F-RAILLOAD, F-RLE, F-SBULKLD, F-SRU1, F-SRU2, F-SWS, F-UNIFINER, F-WTNKFRM, F-MSAT, F-WWTP, F-AMINE2 F-MSATLOAD, F-ALKY, F-SUMP, REMEDFUG, TKOW3FUG, TKOW15FUG, 2021FUG, 2022FUG	Sub cap for Fugitives (5)	VOC	175.44	753.08
		H_2S	1.95	8.55

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
S-001, S-002, S-003, S-004, S-005, S-006, S-007, S-008, S-009, S-010, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-018, S-019, S-020, S-021, S-022, S-023, S-024, S-025, S-026, S-027, S-028, S-031, S-032, S-033, S-035, S-037, S-038, S-039, S-040, S-042, S-043, S-045, S-046, S-049, S-052, S-053, S-055, S-056, S-057, S-058, S-059, S-060, S-063, S-064, S-065, S-066, S-067, S-068, S-069, S-070, S-071, S-072, S-073, S-074, S-075, S-076, S-086, S-090, S-095, S-137, S-138, S-139, S-140, S-141, S-143, S-144, S-150, S-168, S-173, S-174, S-175, S-176, S-177, S-179, S-180, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-200, S-202, S-203, S-204, S-218, S-229	Sub cap for Storage Tanks	VOC	141.70	380.94

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
S-001, S-002, S-003, S-004, S-006, S-007, S-008, S-009, S-010, S-012, S-013, S-014, S-020, S-022, S-023, S-027, S-031, S-032, S-037, S-038, S-042, S-043, S-045, S-052, S-053, S-055, S-059, S-070, S-071, S-075, S-095, S-137, S-138, S-141, S-143, S-144, S-150, S-176, S-177, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-199, S-200, S-202, S-203, S-208, S-218, S-227, S-228, S-230, S-231, S-232, S-233, S-234, S-235, S-236, S-237	Subcap for Crude Expansion Tanks	VOC	91.28	225.35
OX-001	Wastewater Sludge Centrifuge	NO_x	0.01	0.01
		CO	0.14	0.63
		VOC	0.01	0.01
		SO_2	0.15	0.67
OW3	Remediation Mix Oil Tank	VOC	0.01	0.03
OW15	Remediation Mix Oil Tank	VOC	0.01	0.03
TK-2020	Remediation Mix Oil Tank	VOC	0.47	0.26
TK-2021	Remediation Mix Oil Tank	VOC	0.02	0.05
TK-2022	Remediation Mix Oil Tank	VOC	0.02	0.05
OW3VACTR	Remediation Vac Truck	VOC	0.63	0.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
OW15VACTR	Remediation Vac Truck	VOC	0.63	0.03
2021VACTR	Remediation Vac Truck	VOC	0.63	0.03
2022VACTR	Remediation Vac Truck	VOC	0.63	0.03
1220TKMXX1	Rail Facility ULSD Flush Tankage	VOC	0.02	0.01
1220TKTXX1	Truck Rack B100 Blend Tank	VOC	4.99	0.74
1220TKTXX2	Truck Rack B100 Certification Tank	VOC	4.99	1.46
1220TKTXX3	Truck Rack B100 Certification Tank	VOC	4.99	0.74
1150TKTXX4	Pipeline B100 Blend Tank	VOC	4.99	0.74
1150TKTXX5	Pipeline B100 Blend Tank	VOC	4.99	0.74
ADDITIVETK	Biodiesel Additive Tank	VOC	0.31	0.03
MSS_ABRBLS	Abrasive Blasting Operation	PM	0.54	0.54
		PM_{10}	0.07	0.07
		$PM_{2.5}$	< 0.01	< 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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid
HCl - hydrogen chloride

Emission Sources - Maximum Allowable Emission Rates

NH_3 - 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) FCCU contribution to the ammonia cap.

Date: December 20, 2013